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=> file registry
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=> file zcaplus
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FILE COVERS 1907 - 5 Sep 2007  VOL 147 ISS 11
FILE LAST UPDATED: 4 Sep 2007  (20070904/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.
'OBI' IS DEFAULT SEARCH FIELD FOR 'ZCAPLUS' FILE

=> d stat que L83
L77           62 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  DAL FARRA C?/AU
L78           59 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  DOMLOGE N?/AU
L79           31 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BOTTO J?/AU
L80           57 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L77 AND (L78 OR L79)
L81            7 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L78 AND L79
L83            6 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L80 AND L81
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=> d stat que L86
L2            1 SEA FILE=REGISTRY ABB=ON  PLU=ON  158734-09-9
L5           10 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L2
L77          62 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  DAL FARRA C?/AU
L78          59 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  DOMLOGE N?/AU
L79          31 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BOTTO J?/AU
L86           3 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L5 AND (L77 OR L78 OR L79)


=> d stat que L88
L2            1 SEA FILE=REGISTRY ABB=ON  PLU=ON  158734-09-9
L5           10 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L2
L6          186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15         257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L16      141667 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  COSMET?/CC
L17           0 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L16
L18      175128 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/SC,SX
L19     2257205 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  PHARM?/CC,SX,SC
L26     1741414 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR
                DMA)/RL
L30       85846 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/BI
L31      215552 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?DERM?/BI
L32      315606 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?SKIN?/BI
L33         907 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?CELLULIT?/BI
L34      206046 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  AGING?/BI OR ANTIAGING?/BI
L40          65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 (L) L26
L47     1375243 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  GROWTH/BI
L58        4163 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BONE GROWTH?/BI
L59        1630 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BODY GROWTH?/BI
L61      218210 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BONE#/BI
L73     1138160 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  GROWTH/AB
L77          62 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  DAL FARRA C?/AU
L78          59 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  DOMLOGE N?/AU
L79          31 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BOTTO J?/AU
L87           6 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L5 AND ((L16 OR L17 OR L18 OR
                L19) OR L30 OR L40 OR (L31 OR L32 OR L33 OR L34) OR L47 OR
                (L58 OR L59) OR L61 OR L73)
L88           3 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L87 AND (L77 OR L78 OR L79)


=> s L77-L79 and L15
L93           0 (L77 OR L78 OR L79) AND L15

=> s L83 or L86 or L88
L94           7 L83 OR L86 OR L88

=> d ibib abs hitind hitstr L94 1-7

L94  ANSWER 1 OF 7  ZCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2006:1036509  ZCAPLUS  Full-text
DOCUMENT NUMBER:          145:404166
TITLE:                    Use of compounds inducing synthesis of SIRT proteins
                          in or for preparing a cosmetic or pharmaceutical
                          composition
INVENTOR(S):              Dal Farra, Claude; Domloge, Nouha;
                          Botto, Jean-Marie
PATENT ASSIGNEE(S):       Societe D'Extraction Des Principes Actifs Sa
                          (Vincience), Fr.
```

SOURCE: PCT Int. Appl., 20pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006103356	A2	20061005	WO 2006-FR699	20060330
WO 2006103356	A3	20070322		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

FR 2883751	A1	20061006	FR 2005-3198	20050401

PRIORITY APPLN. INFO.: FR 2005-3198 A 20050401

AB The invention concerns a cosmetic or dermopharmaceutical or dermatol. composition comprising, as active principle, in a cosmetically or pharmaceutically acceptable medium, at least one compound capable of activating the synthesis of SIRT proteins in the skin cells. The invention also concerns the use of said compns. A pharmaceutical cream contained cetearyl alc. and cetearyl glucoside 6.00, squalane 3.00, Cetiol SB-45 2.00, cetearyl ethylhexanoate 3.00, mineral oil and lanolin alc. 2.00, dimethicone 1.50, BHT 0.01, butylene glycol 2.00, Gucam E10 1.00, allantoin 0.15, carbomer 0.20, avocado oil 1.25, phenonip 0.75, triethanolamine 0.18, fragrance, dyes and water q.s. 100%, and a hexapeptide of the invention 2 ppm.

IC ICM A61K
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 62

L94 ANSWER 2 OF 7 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1036508 ZCAPLUS Full-text
DOCUMENT NUMBER: 145:404165
TITLE: Dermatological and/or cosmetic composition containing polypeptides
INVENTOR(S): *Dal Farra, Claude; Domloge, Nouha; Botto, Jean-Marie*
PATENT ASSIGNEE(S): Societe D'Extraction Des Principes Actifs Sa (Vincience), Fr.
SOURCE: PCT Int. Appl., 21pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006103354	A2	20061005	WO 2006-FR697	20060330
WO 2006103354	A3	20070607		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

FR 2883753 A1 20061006 FR 2005-3205 20050401

PRIORITY APPLN. INFO.: FR 2005-3205 A 20050401

AB The invention concerns the use of proteins of the SIRT family or polypeptide or peptide fragments of SIRT5 proteins as active principle, alone or in combination with another active principle, in or for preparing a pharmaceutical and/or dermatol. and/or cosmetic composition The invention also concerns all composition containing said active principle. A pharmaceutical cream contained cetearyl alc. and cetearyl glucoside 6.00, squalane 3.00, Cetiol SB-45 2.00, cetearyl ethylhexanoate 3.00, mineral oil and lanolin alc. 2.00, dimethicone 1.50, BHT 0.01, butylene glycol 2.00, Gucam E10 1.00, allantoin 0.15, carbomer 0.20, avocado oil 1.25, phenonip 0.75, triethanolamine 0.18, fragrance, dyes and water q.s. 100%, and a hexapeptide of the invention 2 ppm.

IC ICM A61K

CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 62

L94 ANSWER 3 OF 7 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1034147 ZCAPLUS Full-text

DOCUMENT NUMBER: 145:383537

TITLE: Use of compounds inducing the synthesis of SIRT proteins in or for the preparation of a cosmetic or pharmaceutical composition

INVENTOR(S): *Dal Farra, Claude; Domloge, Nouha; Botto, Jean-Marie*

PATENT ASSIGNEE(S): Societe D'Extraction Des Principes Actifs Sa (Vincience), Fr.

SOURCE: PCT Int. Appl., 20pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006103110	A1	20061005	WO 2006-EP3190	20060330

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

FR 2883752 A1 20061006 FR 2005-3202 20050401
PRIORITY APPLN. INFO.: FR 2005-3202 A 20050401
AB The present invention concerns a cosmetic, or dermo-pharmaceutical, or dermatol. composition comprising, as an active agent in an acceptable cosmetic or pharmaceutical medium, at least one compound able to activate the synthesis of SIRT proteins in skin cells. The present invention also relates to the use of said composition
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 1, 62
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L94 ANSWER 4 OF 7 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1031664 ZCAPLUS Full-text
DOCUMENT NUMBER: 145:403492
TITLE: Use of compounds inducing synthesis of SIRT proteins in or for preparing a cosmetic or pharmaceutical compositions
INVENTOR(S): *Dal Farra, Claude; Domloge, Nouha; Botto, Jean-Marie*
PATENT ASSIGNEE(S): Societe D'Extraction Des Principes Actifs Sa (Vincience), Fr.
SOURCE: PCT Int. Appl., 27pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006103352	A1	20061005	WO 2006-FR695	20060330
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
FR 2883754	A1	20061006	FR 2005-3206	20050401

PRIORITY APPLN. INFO.: FR 2005-3206 A 20050401
AB The invention concerns a cosmetic or dermopharmaceutical or dermatol. composition comprising, as active principle, in a cosmetically or pharmaceutically acceptable medium, at least one compound capable of activating the synthesis of SIRT proteins in the skin cells. The invention also concerns the use of said composition An antiwrinkle cream contained cetearyl alc. and cetearyl glucoside 6.00, squalane 3.00, shea butter 2.00, cetyl ethylhexanoate 3.00, mineral oil and lanolin alc. 2.00, dimethicone 1.50, BHT 0.01, butylene glycol 2.00, Me gluceth-10 1.00, allantoin 0.15, carbomer 0:20, avocado oil 1.25, Phenonip 0.75, triethanolamine 0.18, fragrance, dyes, and water q.s. 100% and peptide of the invention 2 ppm.
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L94 ANSWER 5 OF 7 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:634638 ZCAPLUS Full-text
DOCUMENT NUMBER: 145:109763
TITLE: Slimming *cosmetic* composition
INVENTOR(S): *Dal Farra, Claude; Domloge, Nouha*
PATENT ASSIGNEE(S): Societe D'Extraction des Principes Actifs, Fr.
SOURCE: Fr. Demande, 20 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2879925	A1	20060630	FR 2004-13792	20041223
FR 2879925	B1	20070615		
PRIORITY APPLN. INFO.:			FR 2004-13792	20041223
OTHER SOURCE(S):		MARPAT 145:109763		

AB A *cosmetic* and/or *dermatol.* and/or pharmaceutical composition comprises combination of a peptide and a xanthan base. The composition is used for the treatment of the *cellulite* and/or decrease, eliminate, or prevent s.c. extra lipids. A cream contained Montanov-68 5.00, squalane 2.50, iso-Pr palmitate 3.50, octyldodecanol 1.50, phenonip 0.50, glycerin 3.00, butylene glycol 3.00, Simulgel EG 0.60, Arg-Gly-Ser 1.25 ppm, caffeine 1.00, fragrance and water q.s. 100%.

CC 62-4 (Essential Oils and *Cosmetics*)
ST slimming *cosmetic* cream peptide xanthan lipid
IT *Skin*
(*cellulite*; slimming *cosmetic* composition comprising combination of peptide and xanthan base)
IT Inflammation
(*cellulitis*; slimming *cosmetic* composition comprising combination of peptide and xanthan base)
IT *Cosmetics*
(creams; slimming *cosmetic* composition comprising combination of peptide and xanthan base)
IT Glycols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(ethoxylated propoxylated; slimming *cosmetic* composition comprising combination of peptide and xanthan base)
IT *Cosmetics*
(gels; slimming *cosmetic* composition comprising combination of peptide and xanthan base)
IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polyhydric; slimming *cosmetic* composition comprising combination of peptide and xanthan base)
IT *Cosmetics*
Liposomes
Solvents
(slimming *cosmetic* composition comprising combination of peptide and xanthan base)
IT Lipids, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(slimming *cosmetic* composition comprising combination of peptide and xanthan base)
IT Bentonite, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(slimming ***cosmetic*** composition comprising combination of peptide and xanthan base)

IT Peptides, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(slimming ***cosmetic*** composition comprising combination of peptide and xanthan base)

IT Petrolatum
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(slimming ***cosmetic*** composition comprising combination of peptide and xanthan base)

IT ***Cosmetics***
(sprays; slimming ***cosmetic*** composition comprising combination of peptide and xanthan base)

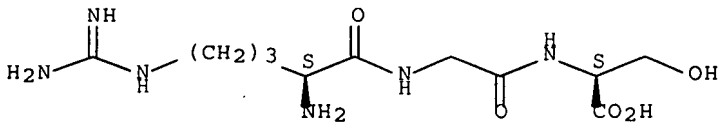
IT Fats and Glyceridic oils, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(vegetable; slimming ***cosmetic*** composition comprising combination of peptide and xanthan base)

IT 57-55-6, Propylene glycol, biological studies 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 64-17-5, Ethanol, biological studies 67-63-0, Isopropanol, biological studies 71-23-8, Propanol, biological studies 83-67-0, Theobromine 110-63-4, Butylene glycol, biological studies 314-35-2, ETamiphylline 437-74-1, Xanthinol nicotinate 479-18-5, Diprophylline 519-37-9, Etophylline 603-00-9, Proxyphylline 652-37-9, Acefylline 2016-63-9, Bamiphylline 6493-05-6, Pentoxiphylline 11138-66-2, Xanthan 14807-96-6, Talcs, biological studies 17692-30-7 25265-71-8, Dipropylene glycol 53403-97-7, Pyridofylline 55242-55-2, Propentophylline ***158734-09-9***
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(slimming ***cosmetic*** composition comprising combination of peptide and xanthan base)

IT ***158734-09-9***
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(slimming ***cosmetic*** composition comprising combination of peptide and xanthan base)

RN 158734-09-9 ZCAPLUS
CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L94 ANSWER 6 OF 7 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:430757 ZCAPLUS Full-text
DOCUMENT NUMBER: 140:428695
TITLE: ***Cosmetic*** or pharmaceutical composition comprising peptides with the sequence Arg-Gly-Ser
INVENTOR(S): ***Dal Farra, Claude; Domloge, Nouha; Botto, Jean-Marie***
PATENT ASSIGNEE(S): Societe d'Extraction des Principes Actifs (Vincience), Fr.

SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2004043482	A1	20040527	WO 2003-FR3280		20031104
W: AU, BR, CA, CN, CO, DZ, ID, IL, IN, IS, JP, KR, MA, MX, NO, NZ, PL, RO, SG, UA, US, UZ, ZA					
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
FR 2846883	A1	20040514	FR 2002-14012		20021108
FR 2846883	B1	20041224			
FR 2858769	A1	20050218	FR 2003-9889		20030813
FR 2858769	B1	20060210			
AU 2003292326	A1	20040603	AU 2003-292326		20031104
EP 1575605	A1	20050921	EP 2003-767892		20031104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
US 2006013794	A1	20060119	US 2005-534355		20050509
PRIORITY APPLN. INFO.:			FR 2002-14012	A	20021108
			FR 2003-9889	A	20030813
			WO 2003-FR3280	W	20031104

OTHER SOURCE(S): MARPAT 140:428695

AB The invention relates to the use of at least one peptide, with the sequence (AA)n-Arg-Gly-Ser-(AA)n, where (AA) is any amino acid or a derivative thereof and n = 0 to 3, as an active ingredient in or for the preparation of a ***cosmetic*** and/or ***dermatol***. and/or pharmaceutical preparation The invention also relates to the use thereof for the treatment, amongst others, of the effects of cutaneous ***aging*** and/or the use thereof against ***cellulite***, to a composition comprising the same and to a ***cosmetic*** method for the treatment of the ***skin*** using said peptide or said composition The amount of interacellular ATP in cultured fibroblasts and adipocytes was increased when treated with a solution of 1% Arg-Gly-Ser. Formulation of an oil-in-water prepns. containing 1.5 ppm of above peptide is disclosed.

IC ICM A61K038-06
ICS A61K038-07; A61K038-08; A61K007-40; A61K007-48; A61P017-00

CC 62-4 (Essential Oils and ***Cosmetics***)
Section cross-reference(s): ***1***, ***63***

ST ***cosmetic*** pharmaceutical peptide arginine glycine serine

IT ***Cosmetics***
(***antiaging***; ***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

IT ***Skin***
(***cellulite***; ***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

IT Peptides, biological studies
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

IT ***Cosmetics***
(creams; ***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

IT ***Cosmetics***

(emulsions; ***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

IT ***Cosmetics***
(gels; ***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

IT ***Cosmetics***
(lotions; ***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

IT ***Cosmetics***
(sprays; ***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

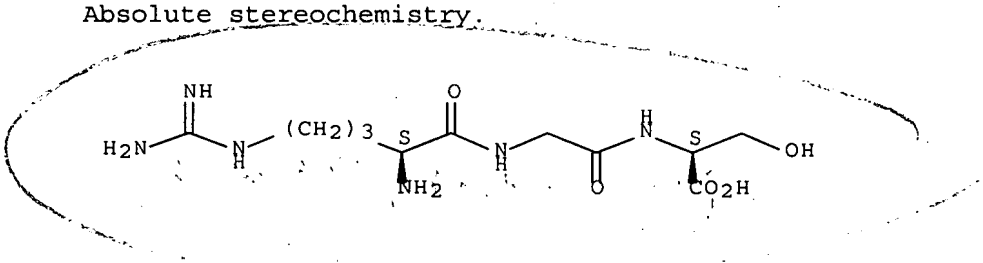
IT ***158734-09-9***
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

IT ***158734-09-9***
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(***cosmetic*** or pharmaceutical composition comprising peptides with sequence Arg-Gly-Ser)

RN 158734-09-9 ZCAPLUS

CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L94 ANSWER 7 OF 7 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:390946 ZCAPLUS Full-text

DOCUMENT NUMBER: 140:395243

TITLE: ***Cosmetic*** composition comprising as active ingredient at least a peptide

INVENTOR(S): ***Dal Farra, Claude; Domloge, Nouha; Botto, Jean Marie***

PATENT ASSIGNEE(S): Vincience, Fr.

SOURCE: Fr. Demande, 25 pp.
CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2846883	A1	20040514	FR 2002-14012	20021108
FR 2846883	B1	20041224		
WO 2004043482	A1	20040527	WO 2003-FR3280	20031104

W: AU, BR, CA, CN, CO, DZ, ID, IL, IN, IS, JP, KR, MA, MX, NO, NZ, PL, RO, SG, UA, US, UZ, ZA

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,

BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003292326 A1 20040603 AU 2003-292326 20031104

EP 1575605 A1 20050921 EP 2003-767892 20031104

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

US 2006013794 A1 20060119 US 2005-534355 20050509

PRIORITY APPLN. INFO.: FR 2002-14012 A 20021108

FR 2003-9889 A 20030813

WO 2003-FR3280 W 20031104

OTHER SOURCE(S): MARPAT 140:395243

AB A *cosmetic*, *dermatol.*, and/or pharmaceutical composition comprises a peptide (AA)n-Arg-Gly-Ser-(AA)n, in which (AA) is unspecified amino acid or one of its derivs., and N is between 0 and 3. The peptide is for treating the manifestations of cutaneous ageing and to protect the *skin* against the external aggressions. Efficacy of Arg-Gly-Ser in enhancement of ATP production in cultured fibroblast is shown. A lotion contained Arg-Gly-Ser 0.1 ppm, propylene glycol 1.00, allantoin 0.30, glycerin 1.00, Cetiol HE (PEG-7 glyceryl cocoate) 1.00, preservatives 0.20, perfume 0.50, and water q.s. 100%.

IC ICM A61K007-48

ICS A61K007-40; A61K038-06; A61K038-08; A61K038-07; A61P017-00

CC 62-4 (Essential Oils and *Cosmetics*)

Section cross-reference(s): *1*, *63*

ST *antiaging cosmetic* peptide

IT *Cosmetics*

(*antiaging*; *cosmetic* composition comprising as active ingredient at least peptide)

IT Cell differentiation

Cosmetics

Liposomes

Solvents

(*cosmetic* composition comprising as active ingredient at least peptide)

IT Petrolatum

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(*cosmetic* composition comprising as active ingredient at least peptide)

IT *Cosmetics*

(creams; *cosmetic* composition comprising as active ingredient at least peptide)

IT *Cosmetics*

(emulsions; *cosmetic* composition comprising as active ingredient at least peptide)

IT *Cosmetics*

(gels; *cosmetic* composition comprising as active ingredient at least peptide)

IT Drug delivery systems

(liposomes; *cosmetic* composition comprising as active ingredient at least peptide)

IT *Cosmetics*

(lotions; *cosmetic* composition comprising as active ingredient at least peptide)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(polyhydric; *cosmetic* composition comprising as active ingredient at least peptide)

IT *Cosmetics*

(powders; *cosmetic* composition comprising as active ingredient at

least peptide)

IT *Cosmetics*
(sticks; ***cosmetic*** composition comprising as active ingredient at least peptide)

IT Fats and Glyceridic oils, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(vegetable; ***cosmetic*** composition comprising as active ingredient at least peptide)

IT 56-65-5, Atp, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(***cosmetic*** composition comprising as active ingredient at least peptide)

IT 57-55-6, Propylene glycol, biological studies 64-17-5, Ethanol, biological studies 67-63-0, Isopropanol, biological studies 71-23-8, Propanol, biological studies 9003-11-6, Polyoxyethylene polyoxypropylene glycol 25265-71-8, Dipropylene glycol 25265-75-2, Butylene glycol
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(***cosmetic*** composition comprising as active ingredient at least peptide)

IT *158734-09-9*
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(***cosmetic*** composition comprising as active ingredient at least peptide)

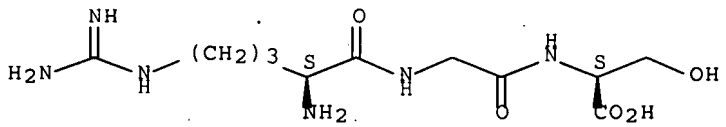
IT 7440-70-2, Calcium, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(intracellular; ***cosmetic*** composition comprising as active ingredient at least peptide)

IT *158734-09-9*
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(***cosmetic*** composition comprising as active ingredient at least peptide)

RN 158734-09-9 ZCAPLUS

CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> file registry
FILE 'REGISTRY' ENTERED AT 12:03:47 ON 05 SEP 2007
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STRUCTURE FILE UPDATES:     4 SEP 2007  HIGHEST RN 946048-22-2
DICTIONARY FILE UPDATES:    4 SEP 2007  HIGHEST RN 946048-22-2

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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=> file zcaplus
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FILE COVERS 1907 - 5 Sep 2007  VOL 147 ISS 11
FILE LAST UPDATED: 4 Sep 2007  (20070904/ED)

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  This file contains CAS Registry Numbers for easy and accurate
  substance identification.
'OBI' IS DEFAULT SEARCH FIELD FOR 'ZCAPLUS' FILE

=> d stat que L25
L2            1 SEA FILE=REGISTRY ABB=ON  PLU=ON  158734-09-9
L16      141667 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  COSMET?/CC
L18      175128 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/SC,SX
L19     2257205 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  PHARM?/CC,SX,SC
L21          10 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L2
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L22             3 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L21 AND L16
L23             3 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L21 AND L18
L24             5 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L21 AND L19
L25             6 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L22 OR L23 OR L24)


=> d stat que L27
L2              1 SEA FILE=REGISTRY ABB=ON  PLU=ON  158734-09-9
L26       1741414 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR
                  DMA)/RL
L27             4 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L2 (L) L26


=> d stat que L5
L2              1 SEA FILE=REGISTRY ABB=ON  PLU=ON  158734-09-9
L5             10 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L2


=> d stat que L87
L2              1 SEA FILE=REGISTRY ABB=ON  PLU=ON  158734-09-9
L5             10 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L2
L6            186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15           257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L16        141667 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  COSMET?/CC
L17             0 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L16
L18        175128 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/SC,SX
L19       2257205 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  PHARM?/CC,SX,SC
L26       1741414 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR
                  DMA)/RL
L30         85846 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/BI
L31        215552 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?DERM?/BI
L32        315606 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?SKIN?/BI
L33           907 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?CELLULIT?/BI
L34        206046 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  AGING?/BI OR ANTIAGING?/BI
L40            65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 (L) L26
L47       1375243 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  GROWTH/BI
L58          4163 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BONE GROWTH?/BI
L59          1630 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BODY GROWTH?/BI
L61        218210 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BONE#/BI
L73       1138160 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  GROWTH/AB
L87             6 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L5 AND ((L16 OR L17 OR L18 OR
                  L19) OR L30 OR L40 OR (L31 OR L32 OR L33 OR L34) OR L47 OR
                  (L58 OR L59) OR L61 OR L73)


=> d stat que L35
L6            186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15           257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L30         85846 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/BI
L35             1 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L30


=> d stat que L41
L6            186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15           257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L26       1741414 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR
                  DMA)/RL
L30         85846 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/BI
L31        215552 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?DERM?/BI
L32        315606 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?SKIN?/BI
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L33          907 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?CELLULIT?/BI
L34       206046 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  AGING?/BI OR ANTIAGING?/BI
L40           65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 (L) L26
L41           12 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L40 AND (L30 OR L31 OR L32 OR
                 L33 OR L34)


=> d stat que L42
L6           186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15          257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L18       175128 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/SC,SX
L42            2 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L18


=> d stat que L60
L6           186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15          257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L49          129 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PY<2003
L50          138 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PRY<2003
L51          126 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND AY<2003
L52          166 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L58         4163 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BONE GROWTH?/BI
L59         1630 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BODY GROWTH?/BI
L60            2 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L58 OR L59) AND L52


=> d stat que L62
L6           186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15          257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L49          129 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PY<2003
L50          138 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PRY<2003
L51          126 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND AY<2003
L52          166 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L61       218210 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BONE#/BI
L62           11 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L61 AND L52


=> d stat que L63
L6           186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15          257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L26      1741414 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR
                 DMA)/RL
L40           65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 (L) L26
L49          129 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PY<2003
L50          138 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PRY<2003
L51          126 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND AY<2003
L52          166 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L61       218210 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  BONE#/BI
L62           11 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L61 AND L52
L63            3 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L40 AND L62


=> d stat que L53
L6           186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15          257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L30        85846 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/BI
L31       215552 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?DERM?/BI
L32       315606 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?SKIN?/BI
L33          907 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?CELLULIT?/BI
L34       206046 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  AGING?/BI OR ANTIAGING?/BI
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L35           1 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L30
L36          16 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L31
L37          22 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L32
L38           0 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L33
L39           1 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L34
L49         129 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PY<2003
L50         138 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PRY<2003
L51         126 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND AY<2003
L52         166 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L53          20 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L52 AND (L35 OR L36 OR L37 OR
                L38 OR L39)


=> d stat que L64
L6          186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15         257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L26     1741414 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR
                DMA)/RL
L30       85846 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/BI
L31      215552 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?DERM?/BI
L32      315606 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?SKIN?/BI
L33         907 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?CELLULIT?/BI
L34      206046 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  AGING?/BI OR ANTIAGING?/BI
L35           1 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L30
L36          16 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L31
L37          22 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L32
L38           0 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L33
L39           1 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L34
L40          65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 (L) L26
L49         129 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PY<2003
L50         138 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PRY<2003
L51         126 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND AY<2003
L52         166 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L53          20 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L52 AND (L35 OR L36 OR L37 OR
                L38 OR L39)
L64           9 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L53 AND L40


=> d stat que L68
L6          186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15         257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L26     1741414 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR
                DMA)/RL
L40          65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 (L) L26
L47     1375243 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  GROWTH/BI
L49         129 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PY<2003
L50         138 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PRY<2003
L51         126 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND AY<2003
L52         166 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L67          52 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L40 AND L52
L68          10 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L67 AND L47


=> d stat que L70
L6          186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15         257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L26     1741414 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR
                DMA)/RL
L30       85846 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?COSMET?/BI
L31      215552 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?DERM?/BI
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L32       315606 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?SKIN?/BI
L33          907 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  ?CELLULIT?/BI
L34       206046 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  AGING?/BI OR ANTIAGING?/BI
L35            1 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L30
L36           16 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L31
L37           22 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L32
L38            0 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L33
L39            1 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L34
L40           65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 (L) L26
L49          129 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PY<2003
L50          138 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PRY<2003
L51          126 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND AY<2003
L52          166 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L53           20 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L52 AND (L35 OR L36 OR L37 OR
                 L38 OR L39)
L70            9 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L53 AND L40


=> d stat que L74
L6           186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15          257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L49          129 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PY<2003
L50          138 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND PRY<2003
L51          126 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND AY<2003
L52          166 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L73      1138160 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  GROWTH/AB
L74           13 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L73 AND L52


=> d stat que L91
L6           186 SEA FILE=REGISTRY ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L15          257 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L6
L89        26504 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  CUTANEOUS/BI
L91            1 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L15 AND L89


=> s (L25 or L27 or L5 or L87 or L35 or L41 or L42 or L60 or L62 or L63 or L53 or
L64 or L68 or L70 or L74 or L91) not L94
L95          51 (L25 OR L27 OR L5 OR L87 OR L35 OR L41 OR L42 OR L60 OR L62 OR
                L63 OR L53 OR L64 OR L68 OR L70 OR L74 OR L91) NOT L94

=> d ibib abs hitind hitstr L95 1-51

L95  ANSWER 1 OF 51  ZCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2007:793674  ZCAPLUS  Full-text
DOCUMENT NUMBER:          147:159832
TITLE:                    Self-activating Clostridium neurotoxins with a
                          modified cleavage site in the di-chain loop region
INVENTOR(S):              Steward, Lance E.; Oka, Melvin S.
PATENT ASSIGNEE(S):       Allergan, Inc., USA
SOURCE:                   U.S. Pat. Appl. Publ., 294pp.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND  DATE        APPLICATION NO.        DATE
     ---------------      ----  --------    --------------------   --------
     US 2007166332         A1   20070719    US 2006-533223         20060919
```

PRIORITY APPLN. INFO.: US 2005-718616P P 20050919

AB Variants of Clostridial neurotoxins that can activate themselves by cleavage to the active di-chain form are described. This is achieved by replacing the cleavage site in the di-chain loop recognized by the endogenous activating proteinase with the cleavage site recognized by the toxin.

INCL 424239100; 530350000; 435069100; 435252300; 435471000

CC 4-5 (Toxicology)
Section cross-reference(s): 1, 7, 10, *62*

IT 2543-43-3 54017-28-6 64134-30-1 71823-88-6 91859-00-6 92000-76-5
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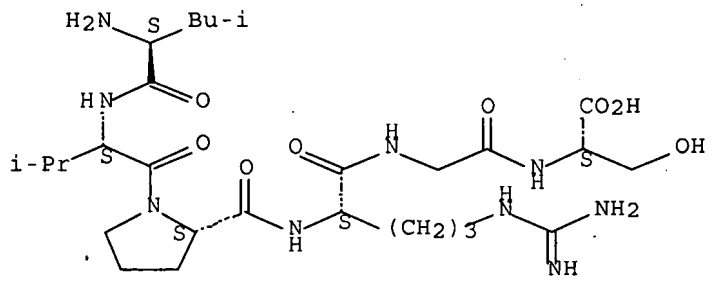
RL: PRP (Properties)
(unclaimed sequence; self-activating Clostridium neurotoxins with modified cleavage site in di-chain loop region)

IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; self-activating Clostridium neurotoxins with modified cleavage site in di-chain loop region)

RN 158734-08-8 ZCAPLUS

CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 2 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1228896 ZCAPLUS Full-text

DOCUMENT NUMBER: 146:6347

TITLE: Improved nanobodies (single-domain VHH antibodies) against tumor necrosis factor-alpha, and therapeutic and diagnostic uses thereof

INVENTOR(S): Beirnaert, Els

PATENT ASSIGNEE(S): Ablynx NV, Belg.
SOURCE: PCT Int. Appl., 530pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006122786	A2	20061123	WO 2006-EP4678	20060517
WO 2006122786	A3	20070322		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2005-682332P P 20050518

AB The present invention relates to improved NanobodiesTM (Trademark of Ablynx) against Tumor necrosis factor-alpha (TNF-α), as well as to polypeptides comprising or essentially consisting of one or more of such Nanobodies. Nanobodies are the smallest functional VHH fragments of naturally occurring heavy chain single-domain antibodies. Anti-TNF and anti-serum albumin nanobodies were identified using llamas (Lama glama) immunized with human TNFα and serum albumin. In one embodiment anti-TNF nanobody linked to anti-serum albumin nanobody via peptide linker. The invention also relates to nucleic acids encoding such Nanobodies and polypeptides; to methods for preparing such Nanobodies and polypeptides; to host cells expressing or capable of expressing such Nanobodies or polypeptides; to compns. comprising such Nanobodies, polypeptides, nucleic acids or host cells; and to uses of such Nanobodies, such polypeptides, such nucleic acids, such host cells or such compns., in particular for prophylactic, therapeutic or diagnostic purposes, such as the prophylactic, therapeutic or diagnostic purposes.

IC ICM C12N
CC 15-3 (Immunochemistry)
Section cross-reference(s): 63
IT *Skin*, disease
(pemphigus; improved nanobodies (single-domain VHH antibodies) against tumor necrosis factor-alpha, and therapeutic and diagnostic uses thereof)
IT Connective tissue, disease
(*scleroderma*; improved nanobodies (single-domain VHH antibodies) against tumor necrosis factor-alpha, and therapeutic and diagnostic uses thereof)
IT 145061-00-3 155177-31-4 883969-56-0 883969-57-1 883969-58-2
883969-59-3 883969-60-6 883969-61-7 883969-62-8 883969-63-9
883969-64-0 883969-65-1 883969-66-2 883969-67-3 883969-68-4
883969-69-5 883969-70-8 883969-71-9 883969-72-0 883969-73-1
883969-74-2 883969-75-3 883969-76-4 *883969-78-6*
915382-65-9 915382-66-0 915382-67-1 915382-68-2 915382-69-3
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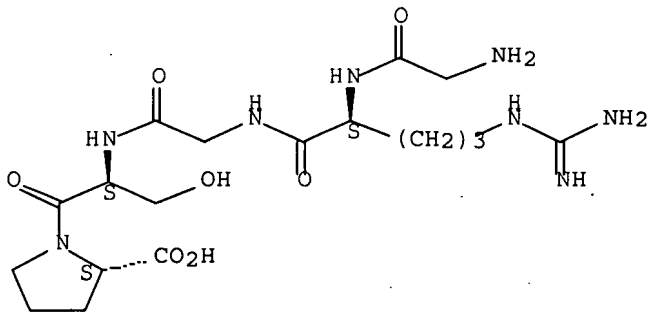
915382-85-3 915429-70-8 915430-05-6 915430-06-7 915430-07-8
915430-08-9
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); *THU (Therapeutic use)*;
ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence, nanobody fragment; improved nanobodies
(single-domain VHH antibodies) against tumor necrosis factor-alpha, and
therapeutic and diagnostic uses thereof)

IT *883969-78-6*
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); *THU (Therapeutic use)*;
ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid sequence, nanobody fragment; improved nanobodies
(single-domain VHH antibodies) against tumor necrosis factor-alpha, and
therapeutic and diagnostic uses thereof)

RN 883969-78-6 ZCAPLUS
CN L-Proline, glycyl-L-arginylglycyl-L-seryl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 3 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1173559 ZCAPLUS Full-text
DOCUMENT NUMBER: 145:466624
TITLE: Methods for cloning and synthesis of human serum albumin, insulin-like growth factor 1 and interferon α2 and 5 in tobacco plastids
INVENTOR(S): Daniell, Henry
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 70pp., Cont.-in-part of U.S. Ser. No. 230,299.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
US 2006253935	A1	20061109	US 2006-406522		20060418	<--
US 7129391	B1	20061031	US 1998-79640		19980515	<--
US 2003204864	A1	20031030	US 2001-807742		20010418	<--
US 2006117412	A1	20060601	US 2005-230299		20050919	<--
PRIORITY APPLN. INFO.:			US 1997-55314P	P	19970807	<--
			US 1998-79042P	P	19980323	<--

US 1998-79640	B2	19980515	<--
US 2001-263473P	P	20010123	<--
US 2001-263668P	P	20010123	<--
US 2001-807742	B1	20010418	<--
US 2005-230299	A2	20050919	
US 1988-249616	B1	19880926	<--
US 1994-215020	B1	19940318	<--
US 1996-591407	A2	19960125	<--
US 2000-185987P	P	20000301	<--
US 2001-263424P	P	20010123	<--
WO 2001-US6288	W	20010228	<--

AB The present invention provides methods for cloning and synthesis of human serum albumin, insulin-like ***growth*** factor 1 and interferon α2 and 5 in tobacco plastids. Transgenic chloroplast technol. provides a viable solution to the production of human serum albumin because of hyper-expression capabilities and the ability to fold and process eukaryotic proteins with disulfide bridges, thereby eliminating the need for expensive post-purification processing. Tobacco is an ideal choice because of its large biomass, ease of scale-up (million seeds per plant), genetic manipulation and impending need to explore alternate uses for this hazardous crop.

INCL 800288000; 800317300; 536023600; 435419000; 435468000

CC 3-2 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 11

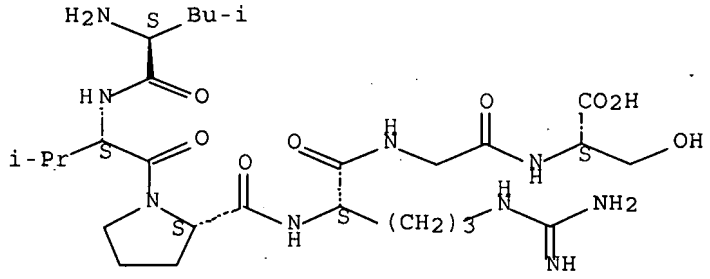
IT 20296-74-6 64134-30-1 77391-11-8 101992-06-7 123924-38-9
158734-08-8 158760-86-2 183561-63-9 911020-11-6
913863-77-1
RL: PRP (Properties)
(unclaimed sequence; methods for cloning and synthesis of human serum albumin, insulin-like growth factor 1 and interferon α2 and 5 in tobacco plastids)

IT ***158734-08-8***
RL: PRP (Properties)
(unclaimed sequence; methods for cloning and synthesis of human serum albumin, insulin-like growth factor 1 and interferon α2 and 5 in tobacco plastids)

RN 158734-08-8 ZCAPLUS

CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 4 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1096719 ZCAPLUS Full-text
DOCUMENT NUMBER: 145:443762
TITLE: Peptides of von Willebrand factor A-related protein for disease treatment

INVENTOR(S): Bateman, John; Fitzgerald, David James
PATENT ASSIGNEE(S): The Murdoch Childrens Research Institute, Australia
SOURCE: PCT Int. Appl., 48pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006108211	A1	20061019	WO 2006-AU234	20060224

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: AU 2005-900888 A 20050225

AB The present invention relates generally to bioactive mols. More particularly, the present invention provides fragments of, or fractions comprising fragments of, von Willebrand Factor A-Related Protein (WARP) or a homolog, analog, derivative, mimetic or functional equivalent thereof. The fragments or fractions have a range of biochem., physiol. and/or pharmacol. activities including, inter alia, activities associated with stem cell proliferation, differentiation and self-renewal, coagulation, homeostasis, control of cancer *growth* and angiogenesis. The present invention further provides pharmaceutical compns. comprising the bioactive mols. or homologs, analogs, derivs., mimetics or functional equivalent thereof. The present invention still further provides methods for preventing and/or treating a range of diseases and conditions in a subject by the administration of the bioactive mols. or homologs, analogs, derivs., mimetics or functional equivalent thereof.

CC 63-3 (*Pharmaceuticals*)

IT 837-83-2 2441-63-6 2543-37-5 2650-69-3 4158-90-1 5513-86-0
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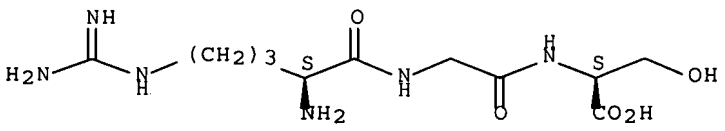
RL: PRP (Properties); ***THU (Therapeutic use)***; BIOL (Biological study); USES (Uses)
(peptides of WARP (von Willebrand factor A-related protein) for disease treatment)

IT ***158734-09-9***
RL: PRP (Properties); ***THU (Therapeutic use)***; BIOL (Biological study); USES (Uses)
(peptides of WARP (von Willebrand factor A-related protein) for disease treatment)

RN 158734-09-9 ZCAPLUS
CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 5 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:657345 ZCAPLUS Full-text
DOCUMENT NUMBER: 145:117443
TITLE: VEGF antagonistic monomeric mini-traps comprising Ig domains of VEGF receptors for treatment of eye disorders
INVENTOR(S): Daly, Thomas J.; Fandl, James P.; Papadopoulos, Nicholas J.

PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U.S. Ser. No. 880,021.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 10
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006148705	A1	20060706	US 2006-346008	20060202
US 2004014667	A1	20040122	US 2003-609775	20030630 <--
US 7087411	B2	20060808		
US 2005043236	A1	20050224	US 2004-880021	20040629

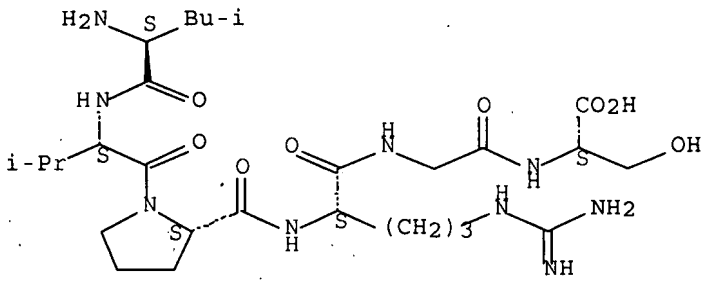
PRIORITY APPLN. INFO.:

US 2003-609775	A2	20030630
US 2004-880021	A2	20040629
US 1999-138133P	P	19990608 <--
WO 2000-US14142	W	20000523 <--
US 2001-9852	A2	20011206 <--

AB The invention provides nucleic acid sequences encoding fusion proteins (traps) which bind and inhibit vascular endothelial *growth* factor (VEGF). The fusion proteins consist of an Ig-like (Ig) domain 2 of a first VEGF receptor (Flt-1) and Ig domain 3 of a second VEGF receptor (Flk-1). The invention describes VEGF-receptor-based antagonistic VEGF traps, such as Flt1D2.Flk1D3.FcΔC1(a) and VEGFR1R2-FcΔC1(a). In a particular embodiment, the fusion proteins of the invention are smaller than the full sized traps, e.g., about 50-60 kD vs. 120 kD of the parent trap, and are monomers. The VEGF mini-traps exhibit unique kinetic properties yet retain a high binding affinity to VEGF. The VEGF traps are therapeutically useful for treating VEGF-associated conditions and diseases, such as ocular diseases.

INCL 514012000; 530350000; 435069700; 435320100; 435325000; 536023500
CC 1-12 (Pharmacology)
Section cross-reference(s): 2, 3
IT *Aging*, animal
(eye disorder related to; VEGF antagonistic monomeric mini-traps comprising Ig domains of VEGF receptors for treatment of eye disorders)
IT *158734-08-8* 160597-73-9 644994-65-0
RL: PRP (Properties)
(unclaimed sequence; vEGF antagonistic monomeric mini-traps comprising Ig domains of VEGF receptors for treatment of eye disorders)
IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; vEGF antagonistic monomeric mini-traps comprising Ig domains of VEGF receptors for treatment of eye disorders)
RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 6 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:470311 ZCAPLUS Full-text
DOCUMENT NUMBER: 144:464099
TITLE: Antimicrobial peptides derived from Bac2A and screening assay
INVENTOR(S): Hancock, Robert, E., W.; Hilpert, Kai
PATENT ASSIGNEE(S): The University of British Columbia, Can.
SOURCE: PCT Int. Appl., 127 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006050611	A1	20060518	WO 2005-CA1731	20051114
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1824976	A1	20070829	EP 2005-803322	20051114
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				

PRIORITY APPLN. INFO.: US 2004-627356P P 20041112
WO 2005-CA1731 W 20051114

OTHER SOURCE(S): MARPAT 144:464099

AB A novel class of peptides having antimicrobial activity is provided based on the antimicrobial peptide Bac2A (RLARIVVIRVAR-NH2), which is known to kill both Gram-pos. and Gram-neg. bacterial. Relationships between structure and activity is derived from 2165 variants created through sequence scrambling, truncations, and systematic modifications of peptide sequence. The best peptide variant, Bac020 (RRAAVVLIVIRR), had a very low MIC (7 μg/mL) against Pseudomonas aeruginosa and other bacteria, compared to the parent mol. Bac2A, and had no cytotoxic effect at 100 μg/Ml against a human macrophage cell line. Also provided are methods for inhibiting the growth of bacteria utilizing the peptides of the invention. A reporter system for screening antimicrobial

activity comprises bacterial luciferase inserted into the fliC gene in Pseudomonas aeruginosa.

CC 10-5 (Microbial, Algal, and Fungal Biochemistry)
Section cross-reference(s): 1, 9

IT Enterococcus faecalis
Escherichia coli
Eubacteria
Gram-negative bacteria
Gram-positive bacteria
Pseudomonas aeruginosa
Salmonella enterica typhimurium
Staphylococcus aureus
Staphylococcus *epidermidis*
(inhibition of growth of; antimicrobial peptides derived from Bac2A and screening assay)

IT

886549-99-1	886550-00-1	886550-01-2	886550-02-3	886550-03-4
886550-04-5	886550-05-6	886550-06-7	886550-07-8	886550-08-9
886550-09-0	886550-10-3	886550-11-4	886550-12-5	886550-13-6
886550-14-7	886550-15-8	886550-16-9	886550-17-0	886550-18-1
886550-19-2	886550-20-5	886550-21-6	886550-22-7	886550-23-8
886550-24-9	886550-25-0	886550-26-1	886550-27-2	886550-28-3
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886550-64-7	886550-65-8	886550-66-9	886550-67-0	886550-68-1
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886551-94-6	886551-95-7	886551-96-8	886551-97-9	886551-98-0
886551-99-1	886552-00-7	886552-01-8	886552-02-9	886552-03-0
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886552-18-7	886552-19-8	886552-20-1	886552-21-2	886552-22-3

886552-23-4 886552-24-5 886552-25-6 886552-26-7 886552-27-8
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886552-33-6 886552-34-7
RL: PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(sequence; antimicrobial peptides derived from Bac2A and screening assay)

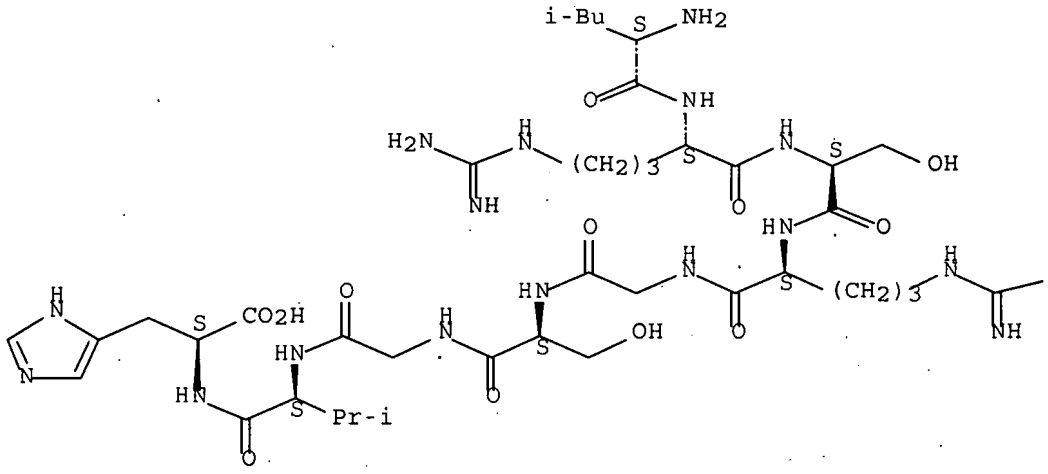
IT *886552-09-6*
RL: PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(sequence; antimicrobial peptides derived from Bac2A and screening assay)

RN 886552-09-6 ZCAPLUS

CN L-Histidine, L-leucyl-L-arginyl-L-seryl-L-arginylglycyl-L-serylglycyl-L-valyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

NH2

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 7 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:456993 ZCAPLUS Full-text
DOCUMENT NUMBER: 144:474844
TITLE: Conjugates with enhanced cell uptake activity
INVENTOR(S): Bonny, Christophe; Coquoz, Didier; Chen, Jianhua
PATENT ASSIGNEE(S): Xigen S.A., Switz.
SOURCE: Eur. Pat. Appl., 65 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1656951	A1	20060517	EP 2004-26934	20041112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
AU 2005303949	A1	20060518	AU 2005-303949	20051109
CA 2585421	A1	20060518	CA 2005-2585421	20051109
WO 2006050930	A2	20060518	WO 2005-EP11991	20051109
WO 2006050930	A3	20070426		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
EP 1809334	A2	20070725	EP 2005-811041	20051109
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				

PRIORITY APPLN. INFO.: EP 2004-26934 A 20041112
WO 2005-EP11991 W 20051109

AB This invention relates to a conjugate mol. comprising at least one first portion (I) comprising a carrier sequence and at least one second portion (II) comprising at lest one anti-tumor drug mol. or a protease inhibitor mol., said conjugate mol. comprising D-enantiomeric amino acids in its portion (I). Furthermore, the invention relates to pharmaceutical compns. containing said conjugate mol. as well as to the use of said conjugate mol. for therapeutical treatment. Methods for improving cell permeability are disclosed as well.

CC 63-5 (Pharmaceuticals)

IT Alkylating agents, biological
Antitumor agents
Brain, neoplasm
Cytotoxic agents
Digestive tract, neoplasm
Hodgkin's disease
Lung, neoplasm
Melanoma
Molecular weight distribution
Neoplasm
Ovary, neoplasm

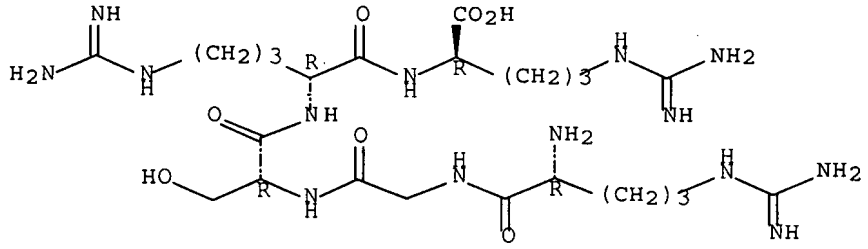
Permeation enhancers
Skin, neoplasm
(D-enantiomeric peptide conjugates with enhanced cell uptake activity)

IT 15663-27-1D, Cisplatin, peptide conjugates 886463-43-0 886463-44-1
886463-45-2 886463-46-3 886463-47-4 886463-48-5 886463-49-6
886463-50-9 886463-51-0 886463-52-1 886463-53-2 886463-54-3
886463-55-4 886463-56-5 886463-57-6 886463-58-7
886463-59-8 886463-60-1 886463-61-2 886463-62-3 886463-63-4
886463-64-5 886463-65-6 886463-67-8 886463-68-9 886463-69-0
886463-70-3 886463-71-4 886463-72-5 886463-73-6 886463-74-7
886463-75-8 886463-76-9 886463-77-0 886463-78-1 886463-80-5
RL: BSU (Biological study, unclassified); ***PAC (Pharmacological activity)***; PRP (Properties); ***THU (Therapeutic use)***; BIOL (Biological study); USES (Uses)
(D-enantiomeric peptide conjugates with enhanced cell uptake activity)

IT ***886463-55-4***
RL: BSU (Biological study, unclassified); ***PAC (Pharmacological activity)***; PRP (Properties); ***THU (Therapeutic use)***; BIOL (Biological study); USES (Uses)
(D-enantiomeric peptide conjugates with enhanced cell uptake activity)

RN 886463-55-4 ZCAPLUS
CN D-Arginine, D-arginylglycyl-D-seryl-D-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 8 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:273367 ZCAPLUS Full-text
DOCUMENT NUMBER: 144:286170
TITLE: Sulfatase domains, anti-sulfatase antibodies, and anti-sulfatase siRNAs for cancer treatment
INVENTOR(S): Naworth, Roman; Rosen, Steven
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 81 pp., Cont.-in-part of U.S. Ser. No. 265,071.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

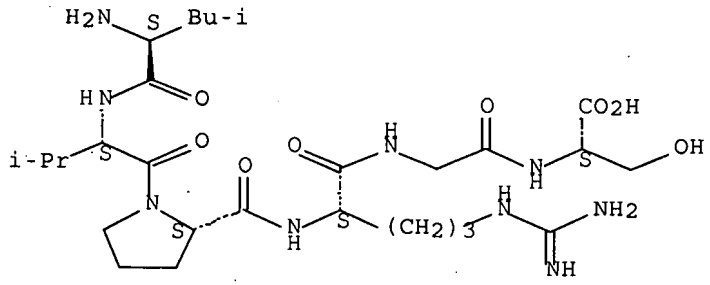
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006063230	A1	20060323	US 2005-219360	20050902 <--
US 2003148920	A1	20030807	US 2001-25966	20011221 <--

US 2003147875 A1 20030807 US 2002-265071 20021003 <--
PRIORITY APPLN. INFO.: US 2000-258577P P 20001227 <--
US 2001-267831P P 20010209 <--
US 2001-25966 A2 20011221 <--
US 2002-265071 A2 20021003 <--

AB Hydrophilic domains of human sulfatase 1 or human sulfatase 2 which lack sulfatase activity, antibodies binding to sulfatase which inhibit sulfatase activity, and nucleic acids encoding sulfatase-inhibiting siRNA are disclosed. These domains, siRNAs, and antibodies may be used to reduce tumor *growth* in individuals with autocrine Wnt signaling tumors. Thus, silencing of human sulfatase-2 in pancreatic adenocarcinoma cells with siRNAs reduced cell proliferation. This was accompanied by reduction in Wnt signaling.

INCL 435069100; 424094600; 435196000; 435320100; 435325000; 536023200
CC 1-6 (Pharmacology)
IT 54017-28-6 85139-13-5 91859-00-6 92000-72-1 98849-88-8
158734-08-8 288306-37-6 288306-38-7 444311-97-1
878545-45-0
RL: PRP (Properties)
(unclaimed protein sequence; sulfatase domains, anti-sulfatase antibodies, and anti-sulfatase siRNAs for cancer treatment)
IT *158734-08-8*
RL: PRP (Properties)
(unclaimed protein sequence; sulfatase domains, anti-sulfatase antibodies, and anti-sulfatase siRNAs for cancer treatment)
RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 9 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:213464 ZCAPLUS Full-text
DOCUMENT NUMBER: 144:287792
TITLE: Degradable clostridial toxins comprising PAR ligand, enzymatic, translocation, and binding domains for therapeutic and *cosmetic* uses
INVENTOR(S): Li, Shengwen; Steward, Lance E.; Fernandez-Salas, Ester; Gilmore, Marcella A.; Francis, Joseph A.; Aoki, Kei Roger
PATENT ASSIGNEE(S): Allergan, Inc., USA
SOURCE: PCT Int. Appl., 320 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006026780	A1	20060309	WO 2005-US31613	20050901
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005279741	A1	20060309	AU 2005-279741	20050901
CA 2578911	A1	20060309	CA 2005-2578911	20050901
EP 1784420	A1	20070516	EP 2005-795616	20050901
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.:			US 2004-931719 A	20040901
			WO 2005-US31613 W	20050901

AB The specification discloses modified Clostridial toxins comprising a PAR ligand domain, a Clostridial toxin enzymic domain, a Clostridial toxin translocation domain and a Clostridial toxin binding domain; polynucleotide mols. encoding modified Clostridial toxins comprising a PAR ligand domain, a Clostridial toxin enzymic domain, a Clostridial toxin translocation domain and a Clostridial toxin binding domain; and method of producing modified Clostridial toxins comprising a PAR ligand domain, a Clostridial toxin enzymic domain, a Clostridial toxin translocation domain and a Clostridial toxin binding domain. The clostridial toxin is a modified BoNT/A, BoNT/B, BoNT/C, BoNT/D, BoNT/E, BoNT/F, BoNT/G or TeNT (tetanus toxin).

CC 4-5 (Toxicology)
Section cross-reference(s): 1, 3, 15, *62*

ST clostridial toxin PAR ligand enzymic translocation binding domain therapeutic; ***cosmetic*** BoNTA BoNTB BoNTC BoNTD BoNTE BoNTF BoNTG TeNt

IT Transforming growth factors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(1-3 derivs.; binding domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and ***cosmetic*** uses)

IT Clostridium botulinum
(A; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and ***cosmetic*** uses)

IT Clostridium botulinum
(B; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and ***cosmetic*** uses)

IT Clostridium botulinum
(C; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and ***cosmetic*** uses)

IT Clostridium botulinum
(D; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and ***cosmetic***

uses)
IT Clostridium botulinum
(E; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Clostridium botulinum
(F; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Clostridium botulinum
(G; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Human
(PAR protein; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Thrombin receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PAR-1 (proteinase-activated receptor 1), ligand domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Proteinase-activated receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PAR-1, ligand domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Proteinase-activated receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PAR-2, ligand domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Thrombin receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PAR-3 (proteinase-activated receptor 3), ligand domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Proteinase-activated receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PAR-3, ligand domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Thrombin receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PAR-4 (proteinase-activated receptor 4), ligand domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)
IT Proteinase-activated receptors

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PAR-4, ligand domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Ligands
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(PAR; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Thy-1; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Interleukin 1
Interleukin 8
Tumor necrosis factors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(binding domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Ciliary neurotrophic factor
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(binding domain; derivs.; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Toxoids
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(botulin, derivs.; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Neurotrophic factors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(brain-derived, derivs.; binding domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Antitumor agents
Cardiovascular system, disease
Clostridium botulinum
Cosmetics
DNA sequences
Drugs
Ear, disease
Endocrine system, disease
Eye, disease
Headache
Mammalia
Mental and behavioral disorders
Molecular cloning
Neoplasm

Neuromuscular diseases
Pain
Protein sequences
(degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Polynucleotides
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Leukemia inhibitory factor
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(derivs.; binding domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Neuron
(dorsal root ganglion; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Protein motifs
(enzymic, translocation or binding domains; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Skin, disease
(hyperkinetic facial lines; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Muscle, disease
(injury; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Epitopes
(lactoseries carbohydrate; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Carbohydrates, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(lactoseries; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Proteinase-activated receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(ligand domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Antibodies and Immunoglobulins
RL: BSU (Biological study, unclassified); COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(monoclonal; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Injury
(muscular; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Nerve, disease
(neuropathy; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Ganglion
(spinal, neurons; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT Toxins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(tetanus, derivs.; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT *Cosmetics*
(wrinkle-preventing; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT 878634-81-2P 878634-82-3P 878634-83-4P 878634-84-5P 878634-85-6P
878634-86-7P 878634-87-8P 878634-88-9P 878634-89-0P 878634-90-3P
878634-91-4P 878634-92-5P 878634-93-6P 878634-94-7P 878634-95-8P
878634-96-9P 878634-97-0P 878634-98-1P 878634-99-2P 878635-00-8P
878635-01-9P 878635-02-0P 878635-03-1P 878635-04-2P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT 58-82-2DP, Bradykinin, derivs. 9061-61-4DP, Nerve growth factor, derivs. 14521-96-1DP, Etorphine, derivs. 58569-55-4DP, Met-enkephalin, derivs. 58822-25-6DP, Leu-enkephalin, derivs. 60617-12-1DP, β-Endorphin, derivs. 61380-40-3DP, Lofentanil, derivs. 62229-50-9DP, Epidermal growth factor, derivs. 74913-18-1DP, Dynorphin, derivs. 79943-68-3DP, Hydra head activator peptide, derivs. 106096-93-9DP, Basic fibroblast growth factor, derivs. 119418-04-1DP, Galanin, derivs. 130939-66-1DP, Neurotrophin 3, derivs. 141801-26-5DP, Endomorphin 2, derivs. 170713-75-4DP, Nociceptin, derivs. 189388-22-5DP, Endomorphin 1, derivs.
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(binding domain; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT 9001-92-7DP, Protease, derivs. 9002-04-4DP, Thrombin, derivs. 9002-05-5DP, Blood-coagulation factor Xa, derivs. 9002-07-7DP, Trypsin,

derivs.
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cleavage site; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT 93384-43-1DP, Botulin A, fusion proteins 93384-44-2DP, Botulin B, fusion proteins 93384-45-3DP, Botulin C, fusion proteins 93384-46-4DP, Botulin D, fusion proteins 93384-47-5DP, Botulin E, fusion proteins 107231-15-2DP, Botulin F, fusion proteins 107231-16-3DP, Botulin G, fusion proteins 140436-67-5DP, derivs. 141136-85-8DP, derivs. 164081-25-8DP, derivs. 202933-49-1DP, derivs. 213018-42-9DP, derivs. 225779-44-2DP, derivs. 320347-28-2DP, derivs. 380900-00-5DP, derivs. 380900-02-7DP, derivs. 380900-04-9DP, derivs. 380900-06-1DP, derivs. 380900-12-9DP, derivs. 380900-14-1DP, derivs. 380900-16-3DP, derivs. 380900-22-1DP, derivs. 380900-24-3DP, derivs. 380900-26-5DP, derivs. 380900-28-7DP, derivs. 380900-30-1DP, derivs. 380900-32-3DP, derivs. 380900-58-3DP, derivs. 459123-99-0DP, derivs. 878546-58-8DP, derivs. 878546-68-0DP, derivs. 878546-72-6DP, derivs. 878547-07-0DP, derivs. 878547-08-1DP, derivs. 878547-09-2DP, derivs. 878634-75-4DP, derivs. 878634-76-5DP, derivs. 878634-77-6DP, derivs. 878634-78-7DP, derivs. 878634-79-8DP, derivs. 878634-80-1DP, derivs.
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT 878635-05-3P 878635-06-4P 878635-07-5P 878635-08-6P 878635-09-7P 878635-10-0P 878635-11-1P 878635-12-2P 878635-13-3P 878635-14-4P 878635-15-5P 878635-16-6P 878635-17-7P 878635-18-8P 878635-19-9P 878635-20-2P 878635-21-3P 878635-22-4P 878635-23-5P 878635-24-6P 878635-25-7P 878635-26-8P 878635-27-9P 878635-28-0P 878635-29-1P 878635-30-4P 878635-31-5P 878635-32-6P 878635-33-7P 878635-34-8P 878635-35-9P 878635-36-0P 878635-37-1P 878635-38-2P 878635-39-3P 878635-40-6P 878635-41-7P 878635-42-8P 878635-43-9P 878635-44-0P 878635-45-1P 878635-46-2P 878635-47-3P 878635-48-4P 878635-49-5P 878635-50-8P 878635-51-9P 878635-52-0P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nucleotide sequence; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT 878640-10-9 878640-11-0 878640-12-1 878640-13-2 878640-14-3 878640-15-4 878640-16-5 878640-17-6 878640-18-7 878640-19-8 878640-20-1 878640-21-2 878640-23-4
RL: PRP (Properties)
(unclaimed protein sequence; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

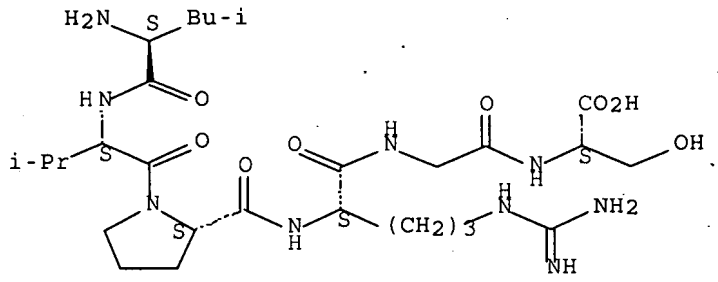
IT 2543-43-3 54017-28-6 91859-00-6 124388-42-7 *158734-08-8* 158760-86-2 164215-03-6 305362-45-2 345643-16-5 878546-80-6 878546-81-7 878546-82-8 878546-83-9 878546-84-0 878546-85-1 878546-86-2 878546-87-3 878546-88-4 878546-89-5 878546-90-8 878546-92-0 878546-93-1 878546-94-2 878546-95-3 878546-96-4 878546-97-5 878546-98-6 878546-99-7 878547-00-3 878547-01-4 878547-02-5 878547-03-6 878547-04-7 878547-05-8 878547-06-9
RL: PRP (Properties)

(unclaimed sequence; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; degradable clostridial toxins comprising PAR ligand, enzymic, translocation, and binding domains for therapeutic and *cosmetic* uses)

RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 10 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:138453 ZCAPLUS Full-text
DOCUMENT NUMBER: 144:318461
TITLE: Active fragment GSLL-39 of recombinant human cationic antimicrobial protein 18 (mhCAP-18) and use for treating bacterial infection
INVENTOR(S): Wu, Kefu; Zheng, Guoguang; Yang, Yinghua; Li, Ge; Rao, Qing
PATENT ASSIGNEE(S): Institute of Hematology, Chinese Academy of Medical Sciences, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 31 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1597695	A	20050323	CN 2003-144286	20030917
PRIORITY APPLN. INFO.:			CN 2003-144286	20030917

AB The invention provides protein sequence of active fragment GSLL-39 produced from recombinant human cationic antimicrobial protein 18 (mHCAP-18) by thrombase digesting. The recombinant mHCAP-18 is generated via PCR method, expressing mhCAP-18 in prokaryotic cell Escherichia coli BL21trxB(DE3) transfected with plasmid pET-mhCAp-18, purifying mhCAP-18 via ultrasonic centrifugation and chromatog., then digesting mhCAP-18 with thrombase to obtain antimicrobial active fragment GSLL-39, purifying GSLL-39 via SP Ni2+ exchange chromatog., sterilizing, concentrating and freeze drying. The invention also relates to application of GSLL-39 for preventing and treating

hCAP-18/LL-37 related diseases, such as infective disease, skin injury repair or infective shock caused by gram-neg. bacteria.

IC ICM C07K014-435
ICS A61K038-17; C12N015-63; A61P031-04; A61P017-02; C07K014-47

CC 63-3 (Pharmaceuticals)
Section cross-reference(s): 3, 6, 10, 13

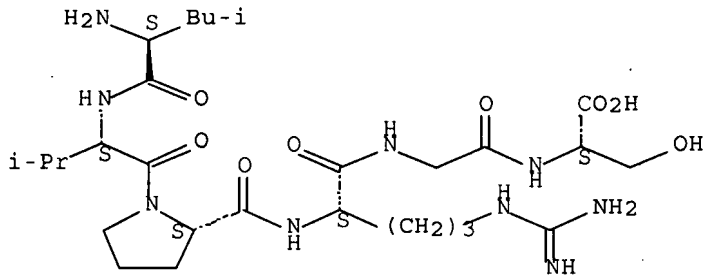
IT Injury
(*cutaneous*, healing; active fragment GSLL-39 of recombinant human cationic antimicrobial protein 18 (mhCAP-18) and use for treating bacterial infection)

IT *158734-08-8* 879227-20-0 879227-21-1 879227-22-2
879227-23-3 879227-24-4 879227-25-5
RL: PRP (Properties)
(unclaimed sequence; active fragment GSLL-39 of recombinant human cationic antimicrobial protein 18 (mhCAP-18) and use for treating bacterial infection)

IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; active fragment GSLL-39 of recombinant human cationic antimicrobial protein 18 (mhCAP-18) and use for treating bacterial infection)

RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 11 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:74856 ZCAPLUS Full-text
DOCUMENT NUMBER: 144:169521
TITLE: Heteroclitic peptide analogs of major histocompatibility complex class I antigen epitopes
INVENTOR(S): Ishioka, Glenn; Fikes, John; Tangri, Shabnam; Sette, Alessandro
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 130 pp., Cont.-in-part of U.S. Ser. No. 116,118.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006018915	A1	20060126	US 2005-510101	20050713 <--

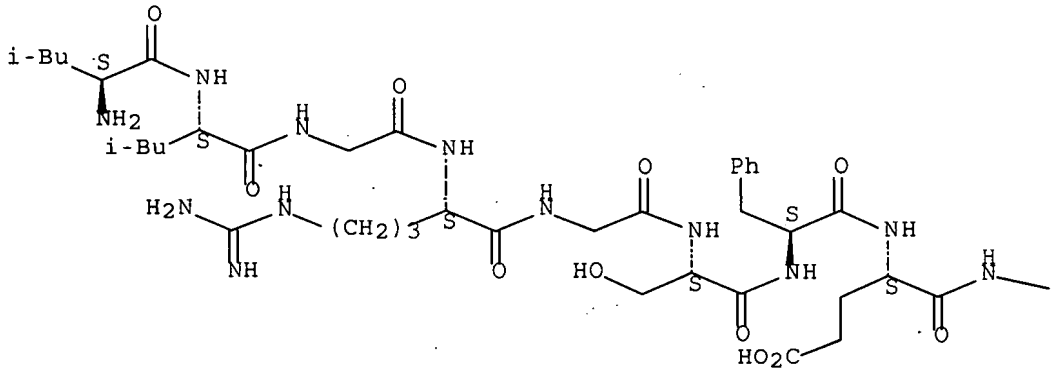
PI US 2003143672 A1 20030731 US 2002-116118 20020405 <--
WO 2003087126 A2 20031023 WO 2003-US10571 20030407 <--
WO 2003087126 A3 20041028
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: US 2002-116118 A2 20020405 <--
US 2002-413471P P 20020926 <--
WO 2003-US10571 W 20030407
US 1999-166529P P 19991118 <--
US 2000-239008P P 20001006 <--
WO 2000-US31856 A2 20001120 <--

AB Heteroclitic analogs of major histocompatibility complex (MHC) class I epitopes are prepared by providing conservative, semi-conservative, or non-conservative amino acid substitutions at any combination of positions 3-10 of these epitopes, resulting in peptides having increased stimulatory capacity or potency for a specific T cell. Several different cytotoxic T cell lines screened for reactivity against panels of analogs yielded rules for designing heteroclitics. Modification of T cell stimulatory capacity was achieved with no alteration of the primary MHC anchors. The wild-type epitopes include tumor epitopes derived from self-antigens that are specifically up-regulated in epithelial cell cancers and have been shown to be immunogenic, including CEA (carcinoembryonic antigen), MAGE2 (melanoma antigen 2), the polymerases from HIV and hepatitis B viruses, and p53. Thus, certain analogs of wild-type epitope CEA.691 (IMIGVLVGV) stimulated significant release of interferon-γ with as little as 0.01 ng/mL of peptide, and on a molar basis are 100,000-fold more potent than their unmodified wild-type counterpart. The analogs are useful in eliciting immune responses with respect to the corresponding wild-type epitopes.

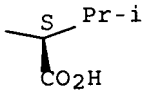
INCL 424184100; 435069100; 435320100; 435325000; 530350000; 536023500
CC 15-2 (Immunochemistry)
Section cross-reference(s): 1
IT ***Skin***
(Langerhans cell; heteroclitic peptide analogs of major histocompatibility complex class I antigen epitopes)
IT 151456-29-0 151808-66-1 341484-43-3 341484-44-4 341484-45-5
341484-46-6 342003-29-6 342003-30-9 342003-31-0 342003-32-1
342003-34-3
RL: BSU (Biological study, unclassified); PRP (Properties); ***THU (Therapeutic use)***; BIOL (Biological study); USES (Uses)
(analog of p53 wild-type epitope; heteroclitic peptide analogs of major histocompatibility complex class I antigen epitopes)
IT ***342003-34-3***
RL: BSU (Biological study, unclassified); PRP (Properties); ***THU (Therapeutic use)***; BIOL (Biological study); USES (Uses)
(analog of p53 wild-type epitope; heteroclitic peptide analogs of major histocompatibility complex class I antigen epitopes)
RN 342003-34-3 ZCAPLUS
CN L-Valine, L-leucyl-L-leucylglycyl-L-arginylglycyl-L-seryl-L-phenylalanyl-L-α-glutamyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L95 ANSWER 12 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:13711 ZCAPLUS Full-text
DOCUMENT NUMBER: 144:106605
TITLE: Hybrid peptides comprising Ii-Key peptide and antigenic epitope as vaccines against infection, allergy and cancer
INVENTOR(S): Humphreys, Robert; Xu, Minzhen
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 142 pp., Cont.-in-part of U.S. Ser. No. 245,871.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006002947	A1	20060105	US 2005-33039	20050111 <--
US 6432409	B1	20020813	US 1999-396813	19990914 <--
US 2003091582	A1	20030515	US 2002-197000	20020717 <--

US 7205274 B2 20070417
US 2003235594 A1 20031225 US 2002-245871 20020917 <--
WO 2006076410 A2 20060720 WO 2006-US944 20060111
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 1999-396813 A3 19990914 <--
US 2002-197000 A2 20020717 <--
US 2002-245871 A2 20020917 <--
US 2005-33039 A 20050111

AB Disclosed is an antigen presentation enhancing hybrid polypeptide which includes three elements. The first element is an N-terminal element consisting essentially of 4-16 residues of the mammalian Ii-Key peptide LRMKLPKPPKPVSKMR and non-N-terminal deletion modifications thereof that retain antigen presentation enhancing activity. The second element is a chemical structure covalently linking the N-terminal element described above to the MHC Class II-presented epitope described below. The chemical structure is a covalently joined group of atoms which when arranged in a linear fashion forms a flexible chain which extends up to the length of 20 amino acids likewise arranged in a linear fashion, the chemical structure being selected from the group consisting of: (i) immunol. neutral chemical structures, (ii) a MHC Class I epitope or a portion thereof, and/or (iii) an antibody-recognized determinant or a portion thereof. Finally, the enhancing antigen presentation enhancing hybrid polypeptide includes a C-terminal element comprising an antigenic epitope in the form of a polypeptide or peptidomimetic structure which binds to the antigenic peptide binding site of an MHC class II mol. Methods for the design and testing of these peptides are presented. Provided are protein and nucleic acid sequences for antigens and peptides of the invention. Exemplified proteins are allergen: Ara h 1-3, Fel d 1, Phi p 1, Phl p 5a, Bla q 5, and bee venom phospholipase A2; tumor antigens: CEA, CA-125, PSA, gp100, Pmel17, TRP-2, melanoma tyrosinase, MART-1, and Her-2 neu; pathogenic antigens: anthrax toxin lethal factor, anthrax protective antigen, Variola virus B5R protein, Ebola virus membrane-associated protein VP24, SARS proteins, influenza virus proteins; and autoantigens: myelin basic protein, proteolipid protein, and myelin-oligodendrocyte glycoprotein precursor. Demonstrated are diagnosis and treatment of the early autoimmune phase leading to type I diabetes mellitus.

INCL 424185100; 435069100; 435320100; 435325000; 530350000; 536023500
CC 15-2 (Immunochemistry)
Section cross-reference(s): 63
IT ***Skin***
(dander; hybrid peptides comprising Ii-Key peptide and antigenic epitope as vaccines against infection, allergy and cancer)
IT 676141-12-1 676141-13-2 676141-14-3 676141-15-4 676141-16-5
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676141-22-3 676141-23-4 676141-24-5 676141-25-6 676141-26-7
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RL: PRP (Properties)
(unclaimed protein sequence; hybrid peptides comprising Ii-Key peptide and antigenic epitope as vaccines against infection, allergy and cancer)

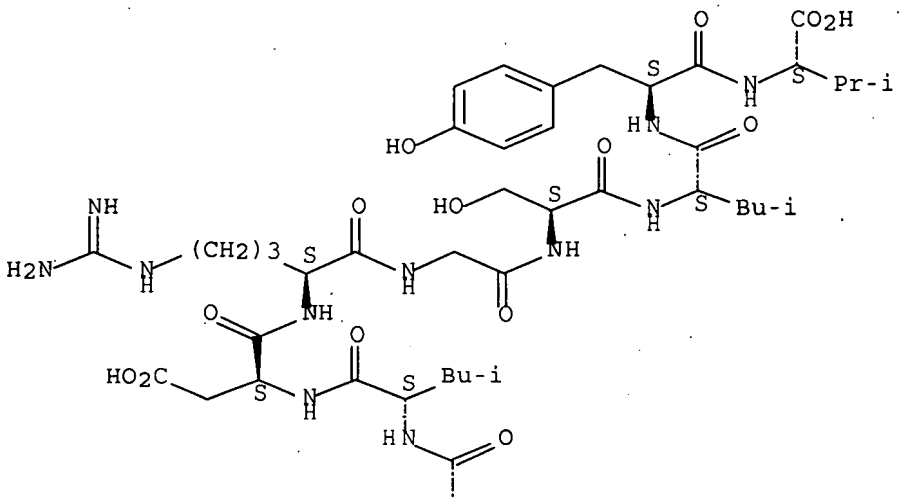
IT *676141-74-5*
RL: PRP (Properties)
(unclaimed protein sequence; hybrid peptides comprising Ii-Key peptide and antigenic epitope as vaccines against infection, allergy and cancer)

RN 676141-74-5 ZCAPLUS

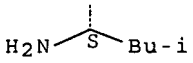
CN L-Valine, L-leucyl-L-leucyl-L-α-aspartyl-L-arginylglycyl-L-seryl-L-leucyl-L-tyrosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



L95 ANSWER 13 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:422135 ZCAPLUS Full-text
DOCUMENT NUMBER: 143:133673
TITLE: Determination of Sequence-Specific Intrinsic Size Parameters from Cross Sections for 162 Tripeptides
AUTHOR(S): Hilderbrand, Amy E.; Clemmer, David E.
CORPORATE SOURCE: Department of Chemistry, Indiana University, Bloomington, IN, 47405, USA
SOURCE: Journal of Physical Chemistry B (2005), 109(23), 11802-11809
CODEN: JPCBFK; ISSN: 1520-6106
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Ion mobility and mass spectrometry techniques have been used to measure cross sections for 162 tripeptide sequences (27 different sets of six sequence isomers). The isomers have the general forms ABC, ACB, BAC, BCA, CAB, and CBA (A = Asp, Glu, Gly; B = Lys, Arg, Leu; and C = Phe, Tyr, Ser). From these data, the authors have derived a set of size parameters for individual amino acids that reflect the position of the amino acid in the sequence. These sequence-specific intrinsic size parameters (SSISPs) are used to retrodict cross-section values for the 162 measured sequences and to predict cross sections for all remaining tripeptide sequences (567 different sequences) that are comprised of these residues. In several types of peptide compns., the position of the amino acid in the sequence has a significant impact on the parameter that is derived. For example, the sequence-specific intrinsic size parameter for leucine in the third position of a peptide [SSISP(Leu3)] is

.apprx.10% larger than SSISP(Leu1). On average, cross sections that are derived using SSISPs provide a better representation of the exptl. value than those derived from composition only intrinsic size parameters, derived as described previously (Valentine et al. J. Phys. Chemical 1999, 103, 1203). Finally, mol. modeling techniques are used to derive some insight into the origin of cross-section differences that arise from sequence variation.

CC 34-3 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 9, 22

IT 2375-01-1P 4306-24-5P 6511-06-4P 7220-68-0P 14317-87-4P
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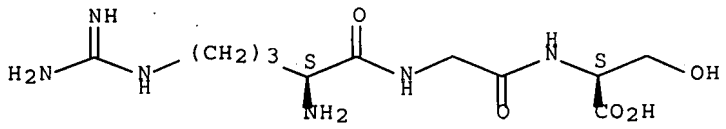
RL: CPN (Combinatorial preparation); PRP (Properties); CMBI (Combinatorial study); PREP (Preparation)
(solid-phase combinatorial synthesis and ion mobility/MS measurements of cross sections of 162 tripeptides for determining sequence-specific intrinsic size parameters)

IT *158734-09-9P*
RL: CPN (Combinatorial preparation); PRP (Properties); CMBI (Combinatorial study); PREP (Preparation)
(solid-phase combinatorial synthesis and ion mobility/MS measurements of cross sections of 162 tripeptides for determining sequence-specific intrinsic size parameters)

RN 158734-09-9 ZCAPLUS
CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 14 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:259357 ZCAPLUS Full-text
DOCUMENT NUMBER: 142:334946
TITLE: Recombinant allergens with mutated IgE epitopes for treating anaphylaxis induced by food, venom, drug and latex allergens
INVENTOR(S): Caplan, Michael J.; Bottomly, Kim H.; Sosin, Howard B.; Burks, A. Wesley; Sampson, Hugh A.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 117 pp., Cont.-in-part of U.S. Ser. No. 100,303.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 14
PATENT INFORMATION:

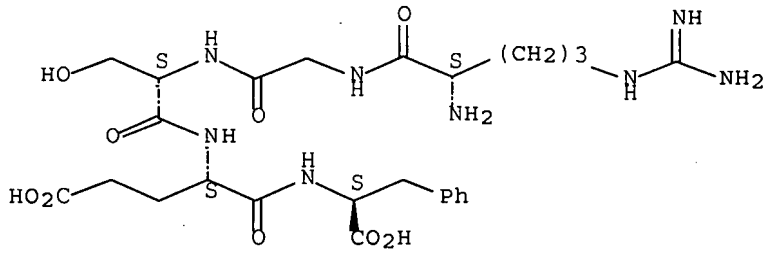
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005063994	A1	20050324	US 2004-899551	20040726 <--
US 2003035810	A1	20030220	US 2000-731375	20001206 <--
AT 319475	T	20060315	AT 2000-982485	20001206 <--
ES 2260078	T3	20061101	ES 2000-982485	20001206 <--
AU 765211	B2	20030911	AU 2001-43769	20010508 <--
US 2003202980	A1	20031030	US 2002-100303	20020318 <--
US 2004208894	A1	20041021	US 2003-728323	20031204 <--
US 2004234548	A1	20041125	US 2003-728051	20031204 <--
PRIORITY APPLN. INFO.:			US 2000-195035P	P 20000406 <--
			US 2000-731375	A2 20001206 <--
			US 2002-100303	A2 20020318 <--
			US 1995-9455P	P 19951229 <--
			AU 1996-72433	A3 19960923 <--
			US 1996-717933	B1 19960923 <--
			US 1998-73283P	P 19980131 <--
			US 1998-74590P	P 19980213 <--
			US 1998-74624P	P 19980213 <--
			US 1998-74633P	P 19980213 <--
			US 1998-106872	A2 19980629 <--
			US 1998-141220	A2 19980827 <--
			US 1998-191593	A2 19981113 <--
			US 1999-240557	B2 19990129 <--
			US 1999-241101	B2 19990129 <--
			US 1999-248673	B2 19990211 <--
			US 1999-248674	B2 19990211 <--
			US 1999-122450P	P 19990302 <--
			US 1999-122452P	P 19990302 <--
			US 1999-122560P	P 19990302 <--
			US 1999-122565P	P 19990302 <--
			US 1999-122566P	P 19990302 <--

US 1999-267719 B2 19990311 <--
US 2000-494096 A2 20000128 <--
US 2001-276822P P 20010316 <--

AB The present invention provides methods and compns. for treating or preventing allergic reactions, particularly anaphylactic reactions. Methods of the present invention involve administering microorganisms to allergic subjects, where the microorganisms contain a recombinant version of the protein allergen. The recombinant version can be wild-type or may include mutations within IgE epitopes of the protein allergen. Preferably the compns. are administered rectally. Particularly preferred microorganisms are bacteria such as E. coli . Any allergen may be used in the inventive methods. Particularly preferred allergens are anaphylactic allergens including protein allergens found in foods, venoms, drugs and latex. The inventive compns. and methods are demonstrated in the treatment of peanut-induced anaphylaxis.

IC ICM A61K039-02
INCL 424200100
CC 15-8 (Immunochemistry)
Section cross-reference(s): 3, 63
IT *Skin*
(test; recombinant allergens with mutated IgE epitopes for treating anaphylaxis induced by food, venom, drug and latex allergens)
IT 64134-30-1 191857-51-9 245445-88-9 253127-93-4 *848652-28-8*
848652-29-9 848652-30-2 848652-32-4 848652-33-5 848652-34-6
RL: PRP (Properties)
(unclaimed sequence; recombinant allergens with mutated IgE epitopes for treating anaphylaxis induced by food, venom, drug and latex allergens)
IT *848652-28-8*
RL: PRP (Properties)
(unclaimed sequence; recombinant allergens with mutated IgE epitopes for treating anaphylaxis induced by food, venom, drug and latex allergens)
RN 848652-28-8 ZCAPLUS
CN L-Phenylalanine, L-arginylglycyl-L-seryl-L-α-glutamyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 15 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:160813 ZCAPLUS Full-text
DOCUMENT NUMBER: 142:254654
TITLE: Uses of VEGF traps made from Ig domains of VEGF receptors 1, 2 and 3 in treating ocular disease
INVENTOR(S): Daly, Thomas J.; Fandl, James P.; Papadopoulos, Nicholas J.
PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 29 pp., Cont.-in-part of U.S. Ser. No. 609,775.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 10
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
US 2005043236	A1	20050224	US 2004-880021		20040629	
US 2004014667	A1	20040122	US 2003-609775		20030630	<--
US 7087411	B2	20060808				
US 2006058234	A1	20060316	US 2005-204709		20050816	<--
US 2006030529	A1	20060209	US 2005-218234		20050901	<--
US 2006148705	A1	20060706	US 2006-346008		20060202	
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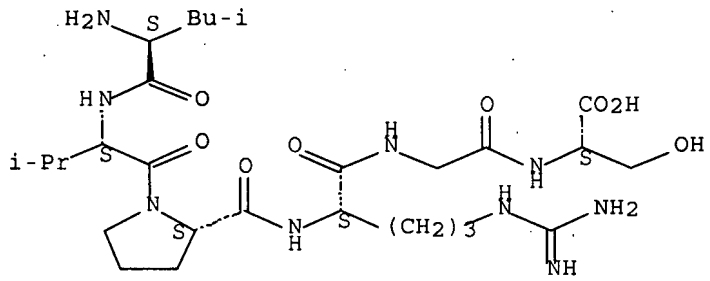
			US 1999-138133P	P	19990608	<--
			WO 2000-US14142	W	20000523	<--
			US 2001-9852	A2	20011206	<--
			US 2004-880021	A2	20040629	
			US 2004-988243	A2	20041112	
			US 2004-16097	A2	20041217	
			US 2004-16503	A2	20041217	
			US 2005-89803	A2	20050325	

AB Nucleic acid mols. and multimeric proteins capable of binding vascular endothelial *growth* factor (VEGF) are provided. The VEGF receptor components of the VEGF mini trap consist of the Ig domain 2 of Flt-1 (Flt1D2) (R1), the Ig domain 3 of Flk-1 (Flk1D3) (R2) (together, R1R2), and/or R1 and Ig domain 3 of Flt-4 (Flt1D3) (R3) (together, R1R3). The protein sequences of three VEGF traps are provided. VEGF traps are disclosed which are therapeutically useful for treating VEGF-associated conditions and diseases, such as ocular disease, and are specifically designed for local administration to specific organs, tissues, and/or cells.

IC ICM A61K038-17
ICS C07H021-04; C07K014-71
INCL 514012000; 530350000; 536023500; 435069100; 435320100; 435325000
CC 1-12 (Pharmacology)
Section cross-reference(s): 2, 3
IT *158734-08-8* 644994-65-0
RL: PRP (Properties)
(unclaimed sequence; uses of VEGF traps made from Ig domains of VEGF receptors 1, 2 and 3 in treating ocular disease)
IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; uses of VEGF traps made from Ig domains of VEGF receptors 1, 2 and 3 in treating ocular disease)
RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 16 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:252189 ZCAPLUS Full-text
DOCUMENT NUMBER: 140:286142
TITLE: Hybrid polypeptides comprising Ii-key motif and MHC class I or II-presented epitope of antigen, allergen or tumor antigen as vaccines against infection, allergy and cancer
INVENTOR(S): Humphreys, Robert E.; Xu, Minzhen
PATENT ASSIGNEE(S): Antigen Express, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 90 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004058881	A1	20040325	US 2002-253286	20020924 <--
US 7179645	B2	20070220		
CA 2499123	A1	20040415	CA 2003-2499123	20030912 <--
WO 2004030616	A2	20040415	WO 2003-US28574	20030912 <--
WO 2004030616	A3	20041007		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003294220	A1	20040423	AU 2003-294220	20030912 <--
EP 1556072	A2	20050727	EP 2003-789700	20030912 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006515744	T	20060608	JP 2004-541534	20030912 <--
PRIORITY APPLN. INFO.:			US 2002-245871 A	20020917 <--
			US 2002-253286 A	20020924 <--
			WO 2003-US28574 W	20030912

AB Disclosed is a nucleic acid mol. comprising a first expressible sequence encoding a protein of interest or polypeptide of interest which contains an MHC Class II-presented epitope. In addition, the nucleic acid mol. comprises a second expressible nucleic acid sequence encoding an antigen presentation-

enhancing hybrid polypeptide. The antigen presentation enhancing hybrid polypeptide includes the following elements: (i) an N-terminal element consisting essentially of 4-16 residues of the mammalian Ii-Key peptide: LRMKLPKPPKPVSKMR and non-N-terminal deletion modifications thereof that retain antigen presentation enhancing activity; (ii) a C-terminal element comprising an MHC Class II-presented epitope in the form of a polypeptide or peptidomimetic structure which binds to the antigenic peptide binding site of an MHC class II mol., the MHC Class II-presented epitope being contained in the protein of interest of step (a); and (iii) an intervening peptidyl structure linking the N-terminal and C-terminal elements of the hybrid, the peptidyl structure having a length of about 20 amino acids or less. Exemplified proteins are allergen: Ara h 1-3, Fel d 1, Phi p 1, Phl p 5a, Bla q 5, and bee venom phospholipase A2; tumor antigen: CEA, CA-125, PSA, gp100, Pmel17, TRP-2, melanoma tyrosinase, MART-1, and Her-2 neu; pathogenic antigen: anthrax toxin lethal factor, anthrax protective antigen, Variola virus B5R protein, and Ebola virus membrane-associated protein VP24; and autoantigen: myelin basic protein, proteolipid protein, and myelin-oligodendrocyte glycoprotein precursor.

IC ICM A61K048-00
ICS C12Q001-68; C07H021-04; C07K014-74

INCL 514044000; 530350000; 435006000; 435069100; 435320100; 435325000; 536023500

CC 15-2 (Immunochemistry)
Section cross-reference(s): 3, 63

IT *Skin*
(dander; hybrid polypeptides comprising Ii-key motif and MHC class I or II-presented epitope of antigen, allergen or tumor antigen as vaccines against infection, allergy and cancer)

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RL: BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(hybrid polypeptides comprising Ii-key motif and MHC class I or II-presented epitope of antigen, allergen or tumor antigen as vaccines against infection, allergy and cancer)

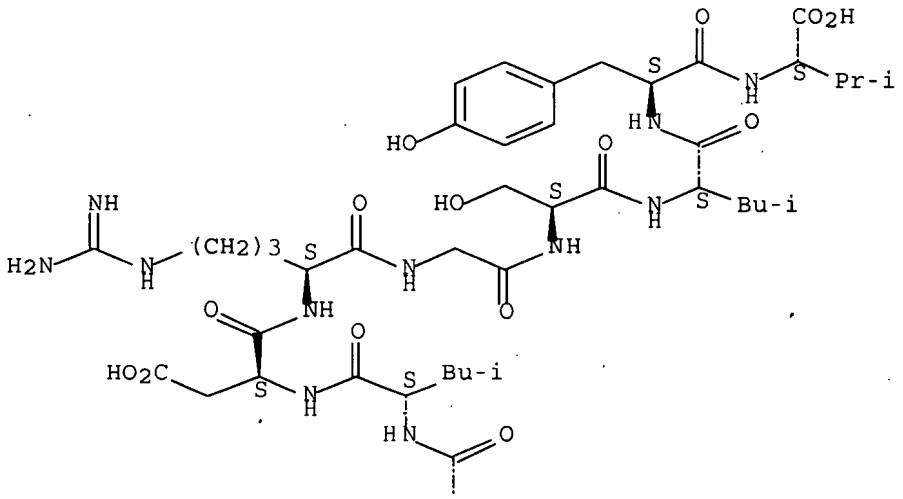
IT *676141-74-5D*, chimeric derivs.
RL: BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(hybrid polypeptides comprising Ii-key motif and MHC class I or II-presented epitope of antigen, allergen or tumor antigen as vaccines against infection, allergy and cancer)

RN 676141-74-5 ZCAPLUS

CN L-Valine, L-leucyl-L-leucyl-L-α-aspartyl-L-arginylglycyl-L-seryl-L-leucyl-L-tyrosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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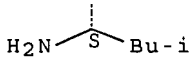

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 17 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:219828 ZCAPLUS Full-text
DOCUMENT NUMBER: 140:249007
TITLE: Methods for preparing abrogen fusion proteins for inhibition of angiogenesis-related disorders
INVENTOR(S): Nesbit, Mark; Cameron, Beatrice; Blanche, Francis
PATENT ASSIGNEE(S): Fr.
SOURCE: U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U.S. Ser. No. 233,675.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004052810	A1	20040318	US 2003-424999	20030429 <--
WO 2003042354	A2	20030522	WO 2002-US27885	20020904 <--
WO 2003042354	A3	20060105		

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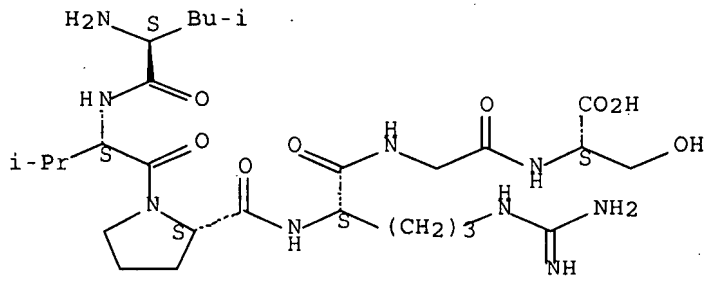
US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003228298 A1 20031211 US 2002-233675 20020904 <--
PRIORITY APPLN. INFO.: US 2002-233675 A2 20020904 <--
WO 2002-US27885 A 20020904 <--
US 2001-316300P P 20010904 <--

AB The present invention provides methods for preparing abrogen fusion proteins for inhibition of angiogenesis-related disorders. Abrogen activity includes region of urokinase plasminogen activator comprising kringle domain. In preferred embodiments, fusion proteins containing abrogen and immunoglobin IgG-2a and human serum albumin were prepared Polypeptides according to the present invention are useful for developing cell *growth*-modulating compns. and methods and for treating and/or preventing cancer, tumor *growth*, or other angiogenic dependent or angiogenesis associated diseases.

IC ICM A61K048-00
ICS A61K039-00; C07K014-47
INCL 424185100; X51-4 1.2; X51-4 4.4; X53-035.0
CC 6-3 (General Biochemistry)
Section cross-reference(s): 1, 3
IT 122024-47-9 147395-23-1 *158734-08-8* 205938-74-5
532384-53-5 671184-41-1 671184-42-2 671184-43-3
RL: PRP (Properties)
(unclaimed sequence; methods for preparing abrogen fusion proteins for inhibition of angiogenesis-related disorders)
IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; methods for preparing abrogen fusion proteins for inhibition of angiogenesis-related disorders)
RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 18 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:219823 ZCAPLUS Full-text
DOCUMENT NUMBER: 140:249006
TITLE: Methods for preparing kringle domain-containing fusion proteins for inhibition of angiogenesis-related disorders
INVENTOR(S): Nesbit, Mark; Cameron, Beatrice; Blanche, Francis
PATENT ASSIGNEE(S): Fr.
SOURCE: U.S. Pat. Appl. Publ., 108 pp., Cont.-in-part of U.S.

Pat. Appl. 2003 228,298.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004052777	A1	20040318	US 2003-425000	20030429 <--
WO 2003042354	A2	20030522	WO 2002-US27885	20020904 <--
WO 2003042354	A3	20060105		

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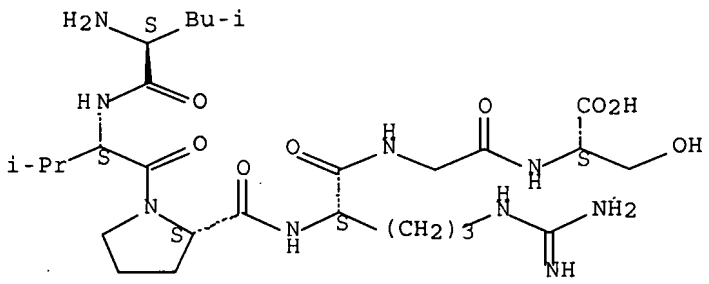
US 2003228298	A1	20031211	US 2002-233675	20020904 <--
PRIORITY APPLN. INFO.:			US 2002-233675	A2 20020904 <--
			WO 2002-US27885	A 20020904 <--
			US 2001-316300P	P 20010904 <--

AB The present invention relates to kringle polypeptides and polynucleotides encoding kringle polypeptides and their use as therapeutic agents and in methods of identifying agonist compds. In effect, the kringle polypeptides according to the present invention are particularly useful for inhibiting in vitro and in vivo proliferation, migration and/or invasion of endothelial cells, recruitment of smooth muscle cells, and/or the formation of vasculature in a tissue. The present invention also relates to the use of kringle polypeptides for treating and/or preventing angiogenesis in tumors and inhibiting the *growth* of tumors. The present invention further relates to a method of modulating angiogenesis in cells affected by an angiogenic-dependent process and inhibiting unwanted or unregulated angiogenesis in an angiogenesis-associated disease. The present invention also concerns a method of production and purification of kringle polypeptides in a soluble and active form.

IC ICM A61K038-43
ICS C12N009-99; A61K039-00; C07K014-54
INCL 424094100; 435184000; 424185100; 530351000
CC 6-3 (General Biochemistry)
Section cross-reference(s): 1, 3
IT 147395-23-1 *158734-08-8* 205938-74-5 671184-41-1
671184-42-2 671184-43-3
RL: PRP (Properties)
(unclaimed sequence; methods for preparing kringle domain-containing fusion proteins for inhibition of angiogenesis-related disorders)
IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; methods for preparing kringle domain-containing fusion proteins for inhibition of angiogenesis-related disorders)
RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 19 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:101303 ZCAPLUS Full-text
DOCUMENT NUMBER: 140:180120
TITLE: Alternative reading frame (ncORF) antigenic determinants from viruses and uses in vaccines
INVENTOR(S): Mattner, Frank; Schmidt, Walter; Habel, Andre
PATENT ASSIGNEE(S): Intercell A.-G., Austria
SOURCE: PCT Int. Appl., 220 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011650	A2	20040205	WO 2003-EP8112	20030724
WO 2004011650	A3	20040624		
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AU 2003254585	A1	20040216	AU 2003-254585	20030724
EP 1523557	A2	20050420	EP 2003-771083	20030724
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1650012	A	20050803	CN 2003-809788	20030724

JP 2005533855	T	20051110	JP 2004-523778	20030724
US 2007134262	A1	20070614	US 2004-512790	20041027
PRIORITY APPLN. INFO.:			AT 2002-1124	A 20020724
			EP 2003-450171	A 20030711
			WO 2003-EP8112	W 20030724

AB It is an object of the present invention to provide means for replacing or improving existing or proposed vaccines against viral pathogens, especially human pathogens. A specific aim is to provide effective T cell epitopes against viral pathogens. The invention discloses polypeptides encoded by an alternative reading frame (non-coding open-reading frame (ncORF)) of a pathogenic virus, which polypeptides - start with a methionine amino acid residue, -- comprise an antigenic determinant (epitope) and - comprise more than 7 amino acid residues and fragments of said polypeptides comprising more than 7 amino acids. T cell responses against alternatively encoded epitopes are detectable in patients suffering such infections. Such a polypeptide according to the present invention may be defined as an antigenic sequence outside the primarily (main) transcribed ORF of a given pathogenic virus. Alternatively encoded antigens from hepatitis C virus and human immunodeficiency virus are provided. Possible ncORF epitopes with superior immunization properties were identified for hepatitis C virus (HCV), human immunodeficiency virus (HIV) and human papilloma virus (HPV). The immunogenicity of HCV ncORF peptides was demonstrated on HLA-A-allele-transgenic mice and on HCV patient -derived cells.

IC ICM C12N015-33
ICS C07K014-005; C07K014-18; A61K039-12

CC 15-2 (Immunochemistry)
Section cross-reference(s): 3, 10

L95 ANSWER 20 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:80402 ZCAPLUS Full-text
DOCUMENT NUMBER: 140:158618
TITLE: cDNA and polypeptide sequences for human gene 213P1F11, and diagnostic and therapeutic uses for bladder, prostate, or breast cancer
INVENTOR(S): Challita-Eid, Pia M.; Raitano, Arthur B.; Faris, Mary; Hubert, Rene S.; Morrison, Robert Kendall; Ge, Wangmao; Jakobovits, Aya
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 334 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004019915	A1	20040129	US 2002-114432	20020401 <--
US 2007037745	A1	20070215	US 2005-90545	20050325 <--
PRIORITY APPLN. INFO.:			US 2002-114432	A3 20020401 <--

AB The invention claims a gene (designated 213P1F11) and its encoded protein, and variants thereof, wherein 213P1F11 exhibits tissue specific expression in normal adult tissue, and is aberrantly expressed in bladder, breast, and prostate cancers. Consequently, 213P1F11 provides a diagnostic, prognostic, prophylactic and/or therapeutic target for cancer. The 213P1F11 gene or fragment thereof, or its encoded protein, or variants thereof, or a fragment thereof, can be used to elicit a humoral or cellular immune response; antibodies or T cells reactive with 213P1F11 can be used in active or passive immunization. The invention provide sequences for 10 cDNA isoforms and 6 protein isoforms of gene 213p1F11. Variants 213P1F11 v.2 and v.3 are splice

variants, 213P1F11 v.4 is an alternative transcript, and variants v.5-v.10 are single nucleotide polymorphisms. Amino acid sequences of 213P1F11 v.1, v.2, v.3, and v.4 are homologous to human and mouse caspase 14 precursor. Gene 213P1F11 mRNAs are highly expressed in bladder, breast, and prostate cancer tissues. In normal tissue, 213P1F11 mRNA was only detected in ***skin*** and thymus. The gene was mapped to human chromosome 19 at 19p13.1. [This abstract record is one of several records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IC ICM A01K067-027
ICS A61K039-395; C12N005-06; C07K016-40

INCL 800006000; 424146100; 530388260; 435338000

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 7, 13, 14, 15

IT ***Skin***
Thymus gland
(gene 213P1F11 mRNA; cDNA and polypeptide sequences for human gene 213P1F11, and diagnostic and therapeutic uses for cancer)

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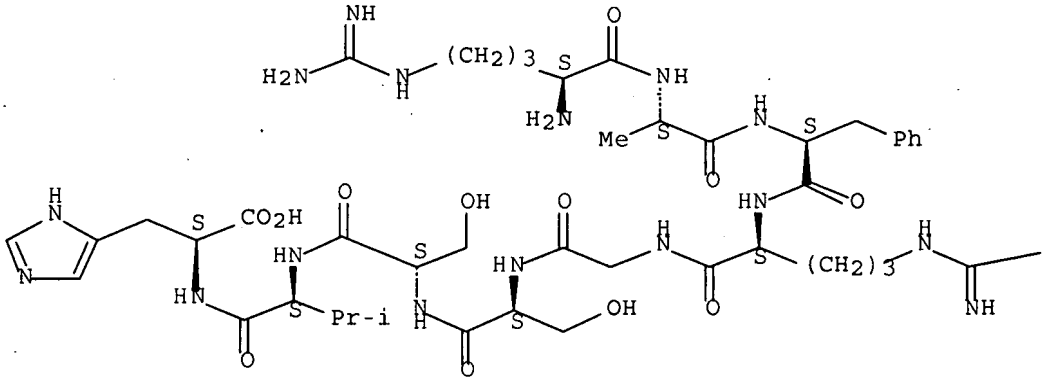
651772-46-2 651772-47-3 651772-48-4 651772-49-5
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ***THU (Therapeutic use)***; ANST (Analytical study); BIOL (Biological study); USES (Uses)
(human gene 213P1F11 peptide epitope; cDNA and polypeptide sequences for human gene 213P1F11, and diagnostic and therapeutic uses for cancer)

IT ***651772-45-1***
RL: ANT (Analyte); DGN (Diagnostic use); PRP (Properties); ***THU (Therapeutic use)***; ANST (Analytical study); BIOL (Biological study); USES (Uses)
(human gene 213P1F11 peptide epitope; cDNA and polypeptide sequences for human gene 213P1F11, and diagnostic and therapeutic uses for cancer)

RN 651772-45-1 ZCAPLUS
CN L-Histidine, L-arginyl-L-alanyl-L-phenylalanyl-L-arginylglycyl-L-seryl-L-seryl-L-valyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NH2

L95 ANSWER 21 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:60122 ZCAPLUS Full-text
DOCUMENT NUMBER: 140:123179
TITLE: Methods for the production and therapeutic uses of VEGF traps made from Ig domains of VEGF receptors 1, 2 and 3
INVENTOR(S): Daly, Thomas J.; Fandl, James P.; Papadopoulos, Nicholas J.
PATENT ASSIGNEE(S): Regeneron Pharmaceuticals, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. Ser. No. 9,852.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 10
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004014667	A1	20040122	US 2003-609775	20030630 <--
US 7087411	B2	20060808		
CA 2588221	A1	20001214	CA 2000-2588221	20000523 <--
WO 2000075319	A1	20001214	WO 2000-US14142	20000523 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1544299	A1	20050622	EP 2005-1328	20000523 <--
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US 7070959	B1	20060704	US 2001-9852	20011206 <--
AU 2004252175	A1	20050106	AU 2004-252175	20040629
CA 2529660	A1	20050106	CA 2004-2529660	20040629
WO 2005000895	A2	20050106	WO 2004-US21059	20040629
WO 2005000895	A3	20050915		
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005043236	A1	20050224	US 2004-880021	20040629
EP 1639007	A2	20060329	EP 2004-777335	20040629
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1816566	A	20060809	CN 2004-80018573	20040629
BR 2004012125	A	20060815	BR 2004-12125	20040629
US 2006058234	A1	20060316	US 2005-204709	20050816 <--
US 2006030529	A1	20060209	US 2005-218234	20050901 <--
MX 2005PA13641	A	20060224	MX 2005-PA13641	20051214
NO 2006000483	A	20060328	NO 2006-483	20060130

IN 2006CN00381	A	20070706	IN 2006-CN381		20060130
US 2006148705	A1	20060706	US 2006-346008		20060202
PRIORITY APPLN. INFO.:			US 1999-138133P	P	19990608 <--
			WO 2000-US14142	W	20000523 <--
			US 2001-9852	A2	20011206 <--
			CA 2000-2376379	A3	20000523 <--
			EP 2000-932721	A3	20000523 <--
			US 2003-609775	A	20030630
			US 2004-880021	A2	20040629
			WO 2004-US21059	W	20040629
			US 2004-988243	A2	20041112
			US 2004-16097	A2	20041217
			US 2004-16503	A2	20041217
			US 2005-89803	A2	20050325

AB Nucleic acid mols. and multimeric proteins capable of binding vascular endothelial *growth* factor (VEGF). VEGF mini-traps are disclosed which are therapeutically useful for treating VEGF-associated conditions and diseases, and are specifically designed for local administration to specific organs, tissues, and/or cells.

IC ICM A61K038-17
ICS C07K014-71; C12P021-02; C12N005-06

INCL 514012000; X53-035.0; X43-5 6.97; X43-532.01; X43-532.5; X53-6 2.35

CC 2-10 (Mammalian Hormones)
Section cross-reference(s): 3

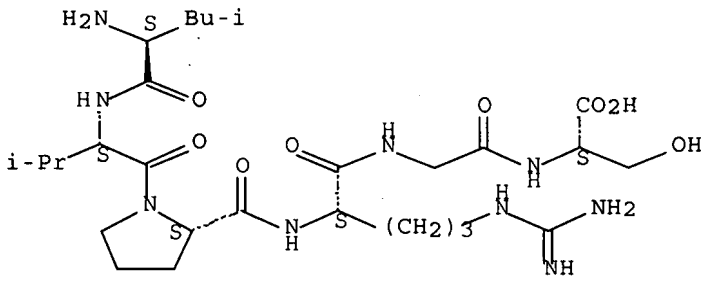
IT *158734-08-8* 160597-73-9
RL: PRP (Properties)
(unclaimed sequence; methods for the production and therapeutic uses of VEGF traps made from Ig domains of VEGF receptors 1, 2 and 3)

IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; methods for the production and therapeutic uses of VEGF traps made from Ig domains of VEGF receptors 1, 2 and 3)

RN 158734-08-8 ZCAPLUS

CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 22 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	2004:3450 ZCAPLUS Full-text
DOCUMENT NUMBER:	140:99617
TITLE:	Peptide conjugates with drugs as prodrugs for activation by tissue or cell-specific proteinases
INVENTOR(S):	Madison, Edwin L.; Semple, Joseph Edward; Vlasuk, George P.; Kemp, Scott Jeffrey; Komandla, Mallareddy; Siev, Daniel Vanna

PATENT ASSIGNEE(S): Corvas International, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 359 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004001801	A1	20040101	US 2002-156214	20020523 <--
PRIORITY APPLN. INFO.:			US 2002-156214	20020523 <--

OTHER SOURCE(S): MARPAT 140:99617

AB Conjugates of peptides with drugs that are substrates of a tissue-specific proteinases that can be used to treat diseases associated with abnormal levels of the enzyme. The enzyme may be transmembrane serine proteinase, a urokinase, or an endotheliase. The conjugates are to be substrates for proteinases that may be cell- or tissue-specific. The drug moiety of the conjugate may be cytotoxic. The drug may be bound to the peptide by a labile linker that will eliminate itself after the preliminary hydrolysis.

IC ICM A61K038-20
ICS A61K038-19; A61K038-18; C07K014-52; C07K014-475; C07K014-415; A61K039-02
INCL 424085100; 530351000; 530370000; 530395000; 530399000; 424085200; 514008000; 514012000; 424236100
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 1, 3, 7
IT Abrins
Anthracyclines
Cytokines
Enediynes
Fas ligand
Growth factors, animal
Interleukin 1
Interleukin 2
Interleukin 6
Nucleic acids
Nucleosides, biological studies
Platelet-derived *growth* factors
Ricins
Taxanes
Toxins
Tumor necrosis factors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(peptide conjugates, as prodrugs; peptide conjugates with drugs as prodrugs for activation by tissue or cell-specific proteinases)
IT Connective tissue, disease
(*scleroderma*, CREST syndrome variant, treatment of; peptide conjugates with drugs as prodrugs for activation by tissue or cell-specific proteinases)
IT Autoimmune disease
Endocrine system, disease
Esophagus, neoplasm
Eye, disease
Glaucoma (disease)
Heart, disease
Infection
Inflammation
Lung, neoplasm
Mammary gland, neoplasm

Melanoma
Neoplasm
Ovary, neoplasm
Pancreas, neoplasm
Prostate gland, neoplasm
Psoriasis
Rheumatoid arthritis
Skin, disease
Wound
(treatment of; peptide conjugates with drugs as prodrugs for activation by tissue or cell-specific proteinases)

IT 206665-17-0D, drug conjugates 476678-22-5D, drug conjugates
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642484-12-6D, drug conjugates 642484-13-7D, drug conjugates
642484-14-8D, drug conjugates 642484-15-9D, drug conjugates
642484-16-0D, drug conjugates 642484-17-1D, drug conjugates
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642484-42-2D, drug conjugates 642484-43-3D, drug conjugates
642484-44-4D, drug conjugates 642484-45-5D, drug conjugates
642484-46-6D, drug conjugates 642484-47-7D, drug conjugates
642484-48-8D, drug conjugates 642484-49-9D, drug conjugates
642484-50-2D, drug conjugates 642484-51-3D, drug conjugates
642484-52-4D, drug conjugates 642484-53-5D, drug conjugates
642484-54-6D, drug conjugates *642484-55-7D*, drug conjugates
642484-56-8D, drug conjugates 642484-57-9D, drug conjugates
642484-58-0D, drug conjugates 642484-59-1D, drug conjugates
642484-60-4D, drug conjugates 642484-61-5D, drug conjugates
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642484-64-8D, drug conjugates 642484-65-9D, drug conjugates
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642484-68-2D, drug conjugates 642484-69-3D, drug conjugates
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642484-76-2D, drug conjugates 642484-77-3D, drug conjugates
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RL: BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(amino acid sequence, as prodrug; peptide conjugates with drugs as prodrugs for activation by tissue or cell-specific proteinases)

IT 642484-89-7D, drug conjugates 642484-90-0D, drug conjugates
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642928-92-5D, drug conjugates 642928-94-7D, drug conjugates
642928-96-9D, drug conjugates
RL: BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(amino acid sequence, as prodrug; peptide conjugates with drugs as prodrugs for activation by tissue or cell-specific proteinases)

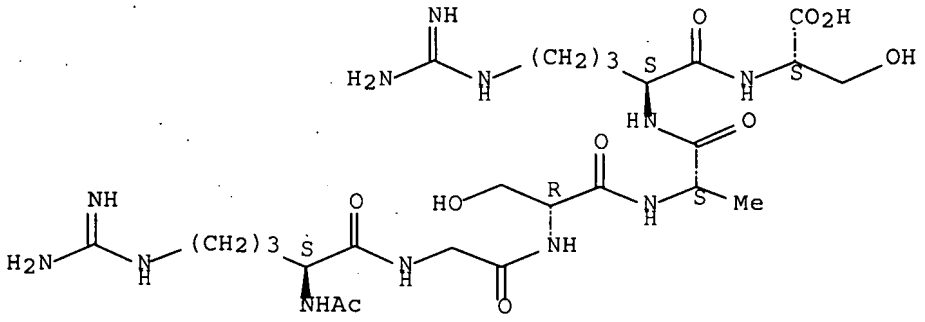
IT 50-07-7D, Mitomycin C, derivs., peptide conjugates 50-18-0D, Cyclophosphamide, derivs., peptide conjugates 50-44-2D, 6-Mercaptopurine, derivs., peptide conjugates 51-21-8D, 5-Fluorouracil, derivs., peptide conjugates 54-62-6D, Aminopterin, derivs., peptide conjugates 57-22-7D, Vincristine, derivs., peptide conjugates 59-05-2D, Methotrexate, derivs., peptide conjugates 91-18-9D, Pteridine, derivs., peptide conjugates 147-94-4D, Cytosine arabinoside, derivs., peptide conjugates 148-82-3D, Melphalan, derivs., peptide conjugates 518-28-5D, Podophyllotoxin, derivs., peptide conjugates 528-74-5D, DichloroMethotrexate, derivs., peptide conjugates 801-52-5D, Porfiromycin, derivs., peptide conjugates 865-21-4D, Vinblastine, derivs., peptide conjugates 1404-00-8D, Mitomycin, derivs., peptide conjugates 2410-93-7D, Methopterin, derivs., peptide conjugates 2998-57-4D, Estramustine, derivs., peptide conjugates 3352-69-0D, 4-Desacetylvinblastine, derivs., peptide conjugates 9035-58-9, Blood-coagulation factor III 9061-61-4, Nerve *growth* factor 11056-06-7D, Bleomycin, derivs., peptide conjugates 11096-26-7, Erythropoietin 15228-71-4D, Leurosidine, derivs., peptide conjugates 15663-27-1D, Cisplatin, derivs., peptide conjugates 20830-81-3D, Daunorubicin, derivs., peptide conjugates 23360-92-1D, Leurosine, derivs., peptide conjugates 33069-62-4D, Taxol, derivs., peptide conjugates 35846-53-8D, Maytansine, derivs., peptide conjugates 39472-31-6D, Carminomycin, derivs., peptide conjugates 57103-68-1D, Maytansinol, derivs., peptide conjugates 62031-54-3, Fibroblast *growth* factor 62229-50-9, *Epidermal growth* factor 82855-09-2D, Combretastatin, derivs., peptide conjugates 83869-56-1, GM-CSF 114977-28-5D, Taxotere, derivs., peptide conjugates 117091-64-2D, Etoposide phosphate, derivs., peptide conjugates 139639-23-9, Tissue plasminogen activator 143011-72-7, G-CSF 152044-53-6D, Epothilone A, derivs., peptide conjugates 152044-54-7D, Epothilone B, derivs., peptide conjugates
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(peptide conjugates, as prodrugs; peptide conjugates with drugs as prodrugs for activation by tissue or cell-specific proteinases)

IT *642484-32-0D*, drug conjugates *642484-33-1D*, drug conjugates *642484-34-2D*, drug conjugates *642484-36-4D*, drug conjugates *642484-55-7D*, drug conjugates *642484-58-0D*, drug conjugates *642485-56-1D*, drug conjugates
RL: BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(amino acid sequence, as prodrug; peptide conjugates with drugs as prodrugs for activation by tissue or cell-specific proteinases)

RN 642484-32-0 ZCAPLUS

CN L-Serine, N2-acetyl-L-arginylglycyl-D-seryl-L-alanyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 642484-33-1 ZCAPLUS
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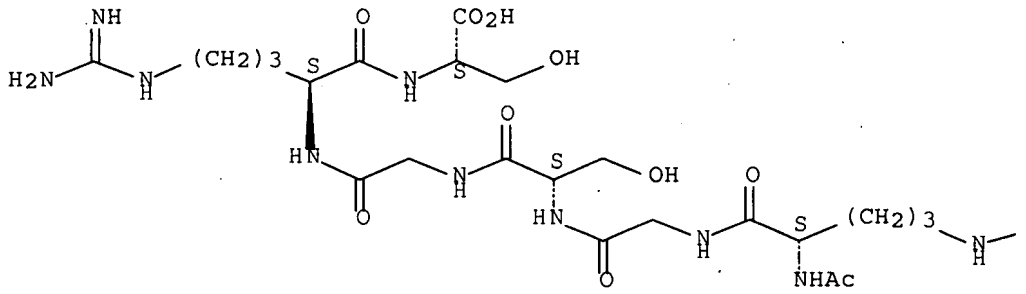
Absolute stereochemistry.

PAGE 1-A



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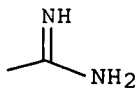

RN 642484-34-2 ZCAPLUS
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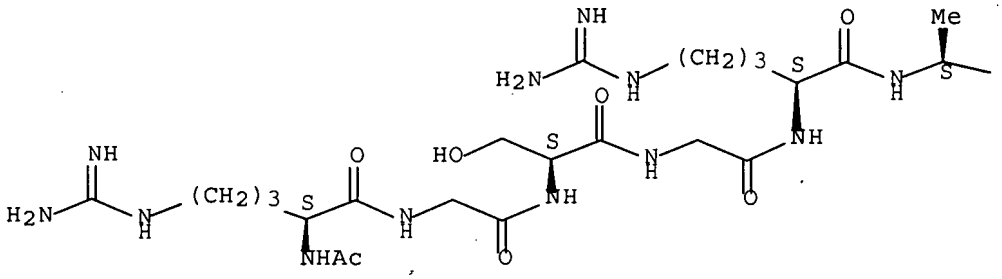
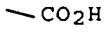
Absolute stereochemistry.

PAGE 1-A

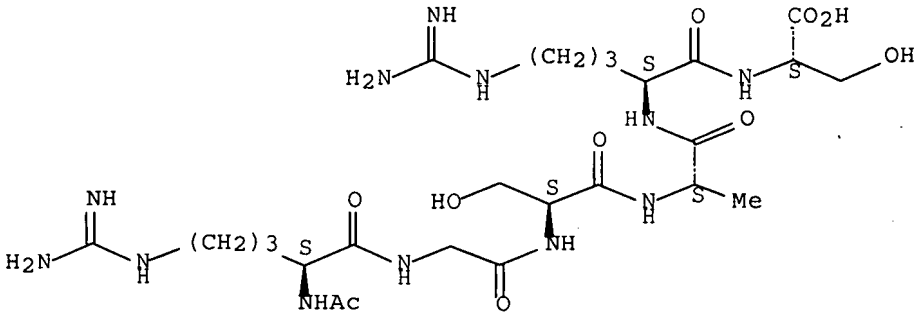


PAGE 1-B



RN 642484-36-4 ZCAPLUS
CN L-Serine, N2-acetyl-L-arginylglycyl-L-seryl-L-alanyl-L-arginyl- (9CI) (CA INDEX NAME)

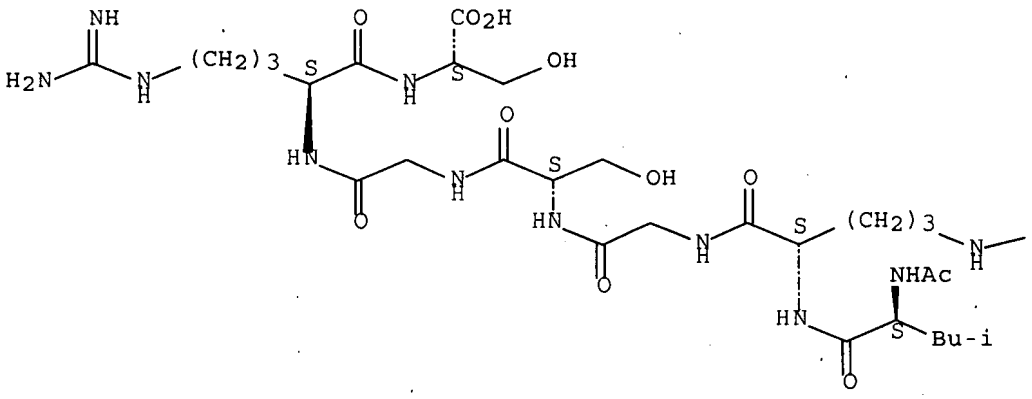
Absolute stereochemistry.



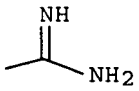
RN 642484-55-7 ZCAPLUS
CN L-Serine, N-acetyl-L-leucyl-L-arginylglycyl-L-serylglycyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



RN 642484-58-0 ZCAPLUS
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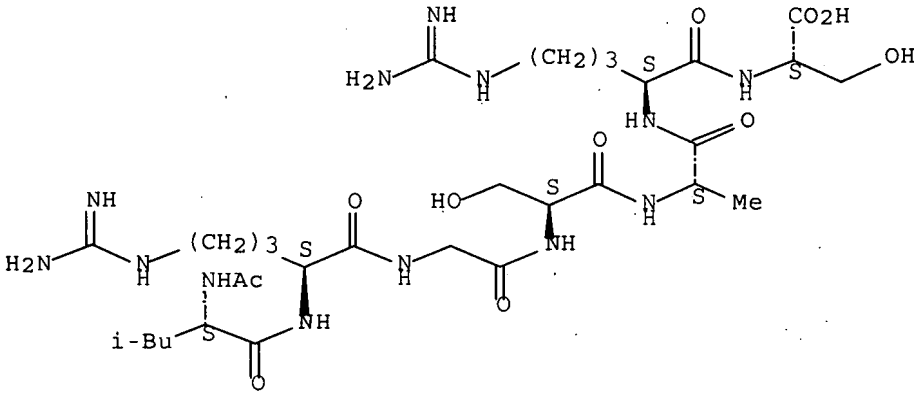
(9CI) (CA INDEX NAME)

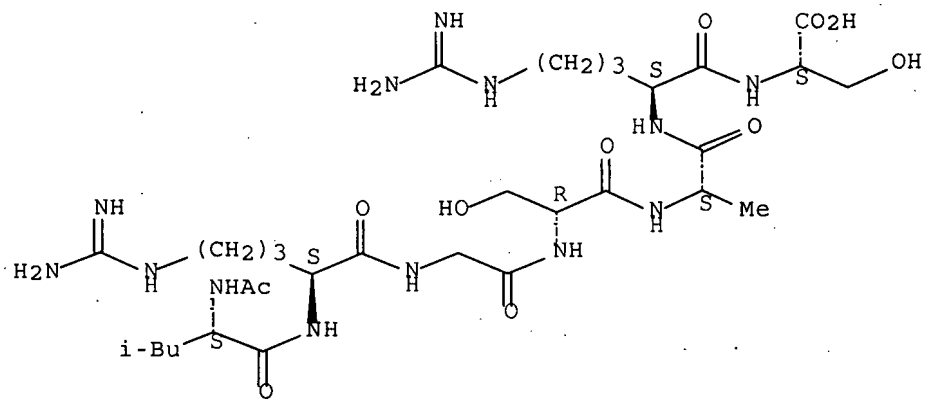
Absolute stereochemistry.



RN 642485-56-1 ZCAPLUS

CN L-Serine, N-acetyl-L-leucyl-L-arginylglycyl-D-seryl-L-alanyl-L-arginyl-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 23 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:610601 ZCAPLUS Full-text
DOCUMENT NUMBER: 139:145561
TITLE: Transport peptides and uses for delivering drugs to target cells
INVENTOR(S): Giordano, Frank J.; Sessa, William C.
PATENT ASSIGNEE(S): Yale University, USA
SOURCE: PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003064614	A2	20030807	WO 2003-US2715	20030130 <--
WO 2003064614	A3	20031113		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2474807	A1	20030807	CA 2003-2474807	20030130 <--
EP 1476176	A2	20041117	EP 2003-705981	20030130 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005181474	A1	20050818	US 2003-502875	20030130 <--
PRIORITY APPLN. INFO.:			US 2002-352745P P	20020130 <--
			WO 2003-US2715 W	20030130

AB The invention describes isolated transport peptides, which cross the cell membrane of a cell and/or home to a target cell. The invention also describes a transport complex in which a transport peptide is linked to a cargo moiety to be delivered into/to a cell. Methods are disclosed describing delivery of a transport complex into and/or to a cell. Vectors and host cells comprising transport peptides and transport complexes are also described, as well as pharmaceutical compns. including transport complexes of the present invention.

IC ICM C12N

CC 6-3 (General Biochemistry)
Section cross-reference(s): 63

IT Brain
Heart
Muscle
Skin
(delivery of drug to; transport peptides and uses for delivering drugs to target cells)

IT 573649-86-2 573649-87-3 573649-88-4 573649-89-5 573649-90-8
573649-91-9 573649-92-0 573649-93-1 573649-94-2 573649-95-3
573649-96-4 573649-97-5 573649-98-6 573649-99-7 *573650-00-7*
573650-01-8 573650-02-9 573650-03-0 573650-04-1 573650-05-2
573650-06-3 573650-07-4 573650-08-5 573650-09-6 573650-10-9
573650-11-0 573650-12-1 573650-13-2 573650-14-3 573650-15-4
573650-16-5 573650-17-6 573650-18-7 573650-19-8 573650-20-1
573650-21-2 573650-22-3 573650-23-4 573650-24-5 573650-25-6
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573650-31-4 573650-32-5 573650-33-6 573650-34-7 573650-35-8
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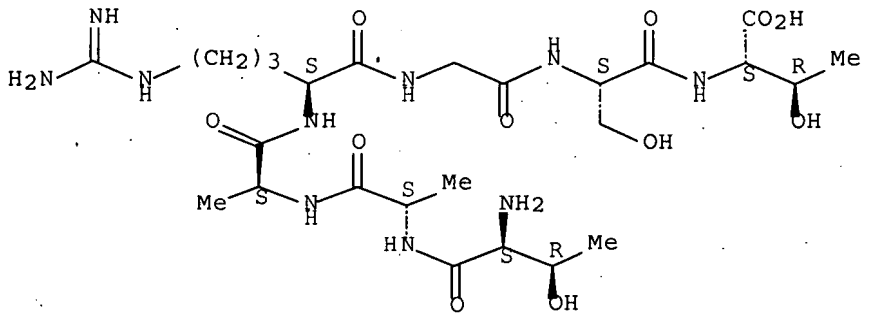
RL: BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(transport peptide sequence; transport peptides and uses for delivering drugs to target cells)

IT *573650-00-7*
RL: BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(transport peptide sequence; transport peptides and uses for delivering drugs to target cells)

RN 573650-00-7 ZCAPLUS

CN L-Threonine, L-threonyl-L-alanyl-L-alanyl-L-arginylglycyl-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 24 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:591215 ZCAPLUS Full-text
DOCUMENT NUMBER: 139:144956
TITLE: Ligand binding domains of cytokine which are linked via flexible polypeptide linker and uses in therapy
INVENTOR(S): Ross, Richard; Artymiuk, Peter; Sayers, Jon
PATENT ASSIGNEE(S): Asterion Limited, UK
SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

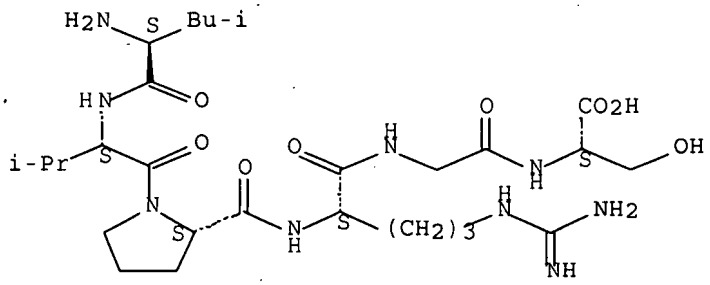
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062276	A2	20030731	WO 2003-GB253	20030124 <--
WO 2003062276	A3	20031016		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2510751	A1	20030731	CA 2003-2510751	20030124 <--
EP 1468020	A2	20041020	EP 2003-702702	20030124 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005529583	T	20051006	JP 2003-562153	20030124 <--
IN 2004KN00972	A	20060505	IN 2004-KN972	20040713 <--
MX 2004PA07160	A	20050331	MX 2004-PA7160	20040723 <--
BR 2004003173	A	20060321	BR 2004-3173	20040730 <--
US 2005214762	A1	20050929	US 2005-502344	20050511 <--
US 2007054364	A1	20070308	US 2006-595991	20061113 <--
PRIORITY APPLN. INFO.:			GB 2002-1679 A	20020125 <--
			WO 2003-GB253 W	20030124
			US 2005-502344 B3	20050511

AB The invention relates to the provision of oligomeric polypeptides (dimers, trimers, etc) comprising the ligand binding domains of cytokines which are linked via flexible polypeptide linker mols. The linker mols. optionally comprise protease sensitive sites to modulate the release of biol. active cytokines when administered to a human or animal subject. The invention also relates to chemical crosslinkers wherein the chemical crosslinkers serve to link the ligand binding domains. The chimeric cytokine can be used for treating acromegaly, gigantism, GH deficiency, Turners syndrome, renal failure, osteoporosis, diabetes mellitus, cancer, obesity, insulin resistance, hyperlipidemia, hypertension, anemia, autoimmune and infectious disease, inflammatory disorders including rheumatoid arthritis.

IC ICM C07K014-52
CC 3-2 (Biochemical Genetics)
Section cross-reference(s): 1, 2, 15
ST ligand binding domain cytokine therapy; *growth* hormone linker fusion sequence; leptin linker fusion sequence
IT cDNA sequences
(for *growth* hormone and leptin; ligand binding domains of cytokines which are linked by chemical crosslinkers and uses in therapy)
IT *Growth* disorders, animal

(gigantism, treatment of; ligand binding domains of cytokines which are linked by chemical crosslinkers and uses in therapy)
IT Protein sequences
(of *growth* hormone and leptin; ligand binding domains of cytokines which are linked by chemical crosslinkers and uses in therapy)
IT 9002-72-6P, *Growth* hormone 169494-85-3P, Leptin
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ligand binding domains of cytokines which are linked via flexible polypeptide linker and uses in therapy)
IT 2543-43-3 2543-44-4 *158734-08-8* 571186-35-1 571186-36-2
RL: BUU (Biological use, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(peptide linker; ligand binding domains of cytokines which are linked by chemical crosslinkers and uses in therapy)
IT *158734-08-8*
RL: BUU (Biological use, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(peptide linker; ligand binding domains of cytokines which are linked by chemical crosslinkers and uses in therapy)
RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 25 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:117964 ZCAPLUS Full-text
DOCUMENT NUMBER: 138:165523
TITLE: Hybrid proteins with neuregulin heparin-binding domain for targeting to heparan sulfate proteoglycans and therapeutic uses thereof
INVENTOR(S): Loeb, Jeffrey A.
PATENT ASSIGNEE(S): Wayne State University, USA
SOURCE: PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003012045	A2	20030213	WO 2002-US24053	20020731 <--
WO 2003012045	A3	20040701		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2455830	A1	20030213	CA 2002-2455830		20020731 <--
AU 2002322762	A1	20030217	AU 2002-322762		20020731 <--
EP 1456239	A2	20040915	EP 2002-756777		20020731 <--
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JP 2005500052	T	20050106	JP 2003-517223		20020731 <--
US 2005107601	A1	20050519	US 2003-485206		20020731 <--
PRIORITY APPLN. INFO.:			US 2001-308563P	P	20010731 <--
			WO 2002-US24053	W	20020731 <--

AB The present invention discloses that the neuregulin (NRG) heparin binding domain (N-HBD) functions to keep the EGF-like domain at sufficiently high concns. near erbB receptors for a sufficiently long period of time necessary to induce events downstream from receptor binding. In particular, fusion polypeptides are produced that comprise, as a targeting structure, a N-HBD polypeptide, fragment, homolog or functional derivative and a protein to be targeted. This is fused to a polypeptide or peptide being targeted (Ptrg) to cell surfaces rich in heparan sulfate proteoglycans to either activate or inhibit interactions at tyrosine kinase receptors. Such products are used to treat diseases or conditions where either agonism or antagonism at tyrosine kinase receptors has beneficial effects, including cancer and a multitude of diseases of the nervous system. The present inventor examined how NRG-HSPG interactions affect NRG-erbB receptor binding, erbB receptor auto-phosphorylation and downstream activation of AChR genes and newly-synthesized proteins in primary chick myotube cultures.

IC ICM C12N

CC 6-3 (General Biochemistry)
Section cross-reference(s): 1, 3

ST hybrid protein neuregulin heparin binding domain; fusion protein targeting heparan sulfate proteoglycan; protein hybrid modulating *epidermal growth* factor acetylcholine receptor

IT Cytokines
Ephrins
Growth factors, animal
Neurotrophic factors
Transforming *growth* factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(as ligand; hybrid proteins with neuregulin heparin-binding domain for targeting to heparan sulfate proteoglycans and therapeutic uses thereof)

IT Antibodies and Immunoglobulins
Epidermal growth factor receptors
G protein-coupled receptors
Tyrosine kinase receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(as targeted protein; hybrid proteins with neuregulin heparin-binding domain for targeting to heparan sulfate proteoglycans and therapeutic uses thereof)

IT 9061-61-4, Nerve *growth* factor 62031-54-3, Fibroblast *growth* factor 127464-60-2, Vascular endothelial *growth* factor 130939-66-1, Neurotrophin 3 143375-33-1, Neurotrophin 4
RL: BSU (Biological study, unclassified); BIOL (Biological study)

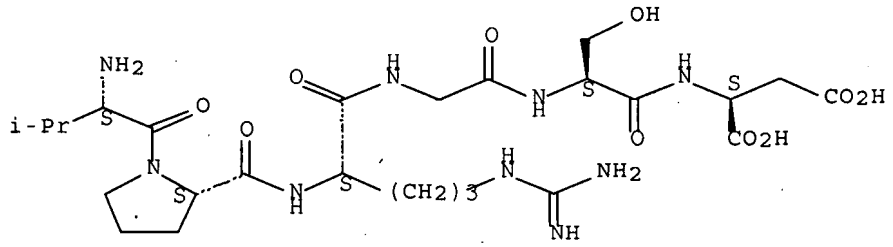
(as ligand; hybrid proteins with neuregulin heparin-binding domain for targeting to heparan sulfate proteoglycans and therapeutic uses thereof)

IT *401895-03-2P* 401895-04-3P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); PREP (Preparation); USES (Uses)
(fusion protein linker amino acid sequence; hybrid proteins with neuregulin heparin-binding domain for targeting to heparan sulfate proteoglycans and therapeutic uses thereof)

IT *401895-03-2P*
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); PREP (Preparation); USES (Uses)
(fusion protein linker amino acid sequence; hybrid proteins with neuregulin heparin-binding domain for targeting to heparan sulfate proteoglycans and therapeutic uses thereof)

RN 401895-03-2 ZCAPLUS
CN L-Aspartic acid, L-valyl-L-prolyl-L-arginylglycyl-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 26 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:315107 ZCAPLUS Full-text
DOCUMENT NUMBER: 136:339494
TITLE: Monoclonal antibodies or fragments specific to VEGF/PDGF-like factor (VPLF) useful for diagnosis and treatment of angiogenesis-related diseases
INVENTOR(S): Shitara, Kenya; Furuya, Akiko
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan; Helix Research Institute
SOURCE: PCT Int. Appl., 136 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002033094	A1	20020425	WO 2001-JP9218	20011019 <--

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PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001094274	A5	20020429	AU 2001-94274		20011019 <--
CA 2426384	A1	20030417	CA 2001-2426384		20011019 <--
EP 1335024	A1	20030813	EP 2001-974890		20011019 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
US 2004086507	A1	20040506	US 2003-399673		20030418 <--
PRIORITY APPLN. INFO.:			JP 2000-319985	A	20001019 <--
			WO 2001-JP9218	W	20011019 <--

AB Provided are monoclonal antibodies which specifically recognizes VPLF proteins and inhibits the activity of VPLF protein. The monoclonal antibodies are IgG1 subclass, secreted by hybridomas KM2764 (FERM BP-7293) and KM2767 (FERM BP-7294), and specifically reacting with human VPLF and inhibiting its activity. This antibody is usable as a remedy or a diagnostic for diseases in which VPLF participates, i.e., diseases associated with abnormal acceleration of angiogenesis, eye diseases based on abnormal angiogenesis, arthritis based on abnormal angiogenesis, ***skin*** diseases associated with abnormal angiogenesis, diseases associated with abnormal acceleration of vasopermeability, diseases associated with abnormal differentiation/proliferation of smooth muscular cells, diseases associated with abnormal differentiation/proliferation of kidney mesangial cells, diseases associated with abnormal differentiation/proliferation of blood stem cells, diseases based on abnormality in osteoblasts, diseases based on abnormality in pancreatic sz cells, ischemic diseases and diseases associated with retarded wound healing.

IC ICM C12N015-53
ICS C12N005-10; C12N001-15; C12N001-19; C12N001-21; C12P021-02; C12P021-08; C07K016-24; A61K039-395; A61P009-10; G01N033-53

CC 15-3 (Immunochemistry)
Section cross-reference(s): 3, 8, 9

IT Arthritis
Glaucoma (disease)
Hematopoietic disorders
Skin, disease
(angiogenesis-associated; monoclonal antibodies or fragments specific to VEGF/PDGF-like factor or VPLF useful for diagnosis and treatment of angiogenesis-related diseases)

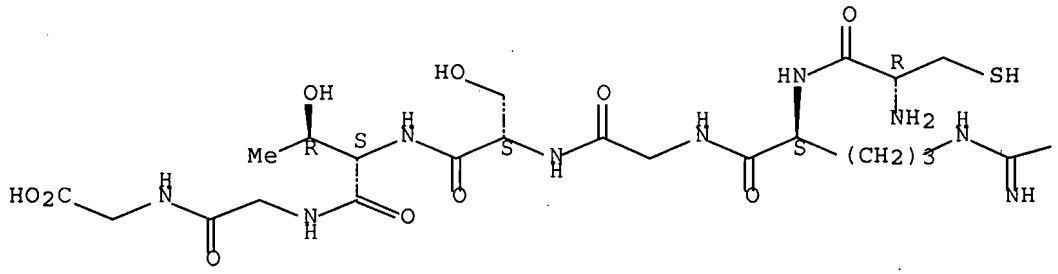
IT 321656-08-0P 321656-09-1P 321656-10-4P ***321656-11-5P***
RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(monoclonal antibodies or fragments specific to VEGF/PDGF-like factor or VPLF useful for diagnosis and treatment of angiogenesis-related diseases)

IT ***321656-11-5P***
RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(monoclonal antibodies or fragments specific to VEGF/PDGF-like factor or VPLF useful for diagnosis and treatment of angiogenesis-related diseases)

RN 321656-11-5 ZCAPLUS
CN Glycine, L-cysteinyl-L-arginylglycyl-L-seryl-L-threonylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 27 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:185354 ZCAPLUS Full-text
DOCUMENT NUMBER: 136:227913
TITLE: Biopanning and rapid analysis of selective interactive ligands (BRASIL)
INVENTOR(S): Arap, Wadih; Pasqualini, Renata
PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA
SOURCE: PCT Int. Appl., 167 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020822	A2	20020314	WO 2001-US28124	20010907 <--
WO 2002020822	A3	20020627		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2421380	A1	20020314	CA 2001-2421380	20010907 <--
AU 200188914	A	20020322	AU 2001-88914	20010907 <--
EP 1315840	A2	20030604	EP 2001-968683	20010907 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004530404	T	20041007	JP 2002-525828		20010907 <--
CA 2496938	A1	20040311	CA 2002-2496938		20021030 <--
WO 2004020999	A1	20040311	WO 2002-US34987		20021030 <--

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002364501	A1	20040319	AU 2002-364501		20021030 <--
EP 1546714	A1	20050629	EP 2002-799873		20021030 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

US 2005074747	A1	20050407	US 2004-363205		20040715 <--
US 2006094672	A1	20060504	US 2004-489071		20041013 <--
US 2006239968	A1	20061026	US 2006-530168		20060223 <--
PRIORITY APPLN. INFO.:			US 2000-231266P	P	20000908 <--
			US 2001-765101	A	20010117 <--
			US 2001-97651	A	20010117 <--
			WO 2001-US28124	W	20010907 <--
			WO 2002-US27836	A	20020830 <--
			WO 2002-US34987	W	20021030 <--

AB The present invention concerns novel methods of identifying peptide sequences that selectively bind to targets. In alternative embodiments, targets may comprise cells or clumps of cells, particles attached to chems. compds., mols. or aggregates, or parasites. In preferred embodiments, target cells are sorted before exposure to the phage library. The general method, Biopanning and Rapid Anal. of Selective Interactive Ligands (BRASIL) provides for rapid and efficient separation of phage that bind to targets, while preserving unbound phage. BRASIL may be used in preselection procedure to subtract phage that bind non-specifically to a first target before exposing the subtracted library to a second target. Certain embodiments concern targeting peptides identified by BRASIL and methods of use of such peptides for targeted delivery of therapeutic agents or imaging agents or diagnosis or treatment of diseases. Novel compns. comprising a first phase, second phase, target and a phage library are also disclosed. BASIL is exemplified by screening for targeting peptides for (1) VEGF in HUVEC cells, (2) the Molt-4 leukemia cell line, (3) urothelial tissue (human bladder wall), (4) mesenchymal stem cells, and (5) screening for *bone* marrow targeting peptides.

IC ICM C12Q

CC 3-1 (Biochemical Genetics)
Section cross-reference(s): 9, 13

ST BASIL biopanning selective interactive ligand; targeting peptide screening BASIL biopanning; VEGF targeting peptide screening biopanning; leukemia targeting peptide screening biopanning; urothelial tissue targeting peptide screening biopanning; *bone* marrow targeting peptide screening biopanning; stem cell targeting peptide screening biopanning

IT Angiogenic factors
Chemokines
Cytokines
Growth factors, animal
Hormones, animal, biological studies
Neurotransmitters
Toxins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(cells activated by; biopanning and rapid anal. of selective interactive ligands (BRASIL))

IT AIDS (disease)
Alzheimer's disease
Arthritis
Atherosclerosis
Autoimmune disease
Cardiovascular system, disease
Diabetes mellitus
Hodgkin's disease
Inflammation
Leukemia
Lung, neoplasm
Mammary gland, neoplasm
Ovary, neoplasm
Parkinson's disease
Prostate gland, neoplasm
Skin, neoplasm
(diagnosis of; biopanning and rapid anal. of selective interactive ligands (BRASIL))

IT Amoeba
Angiogenesis
Animal cell
Bladder
Bone marrow
Embryo, animal
Erythrocyte
Escherichia coli
Eubacteria
Fungi
Giardia
Hematopoietic precursor cell
Legionella
Leishmania
Leukemia
Liver
Lymph node
Lymphocyte
Mold (fungus)
Neoplasm
Pathogen
Plant cell
Plasmodium falciparum
Salmonella
Spleen
Trypanosoma brucei
Trypanosoma cruzi
Yeast
(screening for targeting peptides for; biopanning and rapid anal. of selective interactive ligands (BRASIL))

IT 127464-60-2, Vascular endothelial *growth* factor
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(screening for targeting peptides for; biopanning and rapid anal. of selective interactive ligands (BRASIL))

IT 184240-25-3 184240-26-4 184240-32-2 286380-02-7 402751-23-9
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402754-06-7 402754-07-8 402754-08-9 402754-09-0 402754-10-3
402754-11-4

RL: ANT (Analyte); ***THU (Therapeutic use)***; ANST (Analytical study); BIOL (Biological study); USES (Uses)
(targeting peptide; biopanning and rapid anal. of selective interactive ligands (BRASIL))

IT ***402753-24-6***

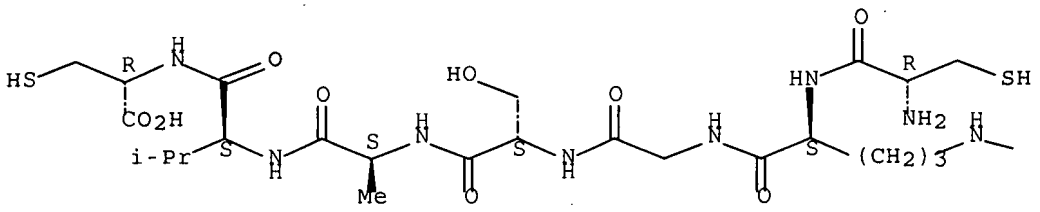
RL: ANT (Analyte); ***THU (Therapeutic use)***; ANST (Analytical study); BIOL (Biological study); USES (Uses)
(targeting peptide; biopanning and rapid anal. of selective interactive ligands (BRASIL))

RN 402753-24-6 ZCAPLUS

CN L-Cysteine, L-cysteinyl-L-arginylglycyl-L-seryl-L-alanyl-L-valyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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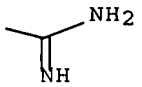

L95 ANSWER 28 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:185277 ZCAPLUS Full-text
DOCUMENT NUMBER: 136:242899
TITLE: Phage display libraries and methods for identifying targeting peptides in humans in vivo
INVENTOR(S): Arap, Wadih; Pasqualini, Renata
PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA
SOURCE: PCT Int. Appl., 269 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020723	A2	20020314	WO 2001-US28044	20010907 <--
WO 2002020723	A3	20020829		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
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EP 1315830	A2	20030604	EP 2001-970681	20010907 <--
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JP 2004533803	T	20041111	JP 2002-525730	20010907 <--

CA 2496938 A1 20040311 CA 2002-2496938 20021030 <--
WO 2004020999 A1 20040311 WO 2002-US34987 20021030 <--
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
AU 2002364501 A1 20040319 AU 2002-364501 20021030 <--
EP 1546714 A1 20050629 EP 2002-799873 20021030 <--
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US 2006094672 A1 20060504 US 2004-489071 20041013 <--
US 2006239968 A1 20061026 US 2006-530168 20060223 <--
PRIORITY APPLN. INFO.: US 2000-231266P P 20000908 <--
US 2001-765101 A 20010117 <--
US 2001-97651 A 20010117 <--
WO 2001-US28044 W 20010907 <--
WO 2002-US27836 A 20020830 <--
WO 2002-US34987 W 20021030 <--

AB The present invention concerns methods and compns. for identifying human targeting peptides sequences. The methods used for phage display biopanning in the mouse model system require substantial improvements for use with humans. In general, humans suitable for use with phage display are either brain dead or terminal wean patients. The amount of phage library (preferably primary library) required for administration must be significantly increased, preferably 5 orders of magnitude to 1014 TU or higher, preferably administered i.v. in .apprx.200 mL of Ringer lactate solution over about a 10-min period. To produce such large phage libraries, the transformed bacterial pellets recovered from up to 500-1000 transformations are amplified up to 10 times in the bacterial host, recovering the phage from each round of amplification and adding LB Tet medium to the bacterial pellet for collection of addnl. phage. Samples of various organs and tissues are collected starting .apprx.15 min after injection of the phage library; samples are processed and phage collected from each organ, tissue or cell type of interest for DNA sequencing to determine the amino acid sequences of targeting peptides. A substantial improvement in the biopanning technique involves polyorgan targeting. It is possible to pool phage collected from multiple organs after a first round of biopanning and inject the pooled sample into a new subject, where each of the multiple organs may be collected for phage rescue, and the protocol repeated for as many rounds of biopanning as desired. In this manner, it is possible to significantly reduce the number of subjects required for isolation of targeting peptides for multiple organs, while still achieving substantial enrichment of the organ-homing phage. Thus, 320 targeting peptides are identified with specificity for ***bone*** marrow, adipose tissue, skeletal muscle, prostate, ***skin***, or multiple organs. The peptides are of use for targeted delivery of therapeutic agents, including gene therapy vectors. Such targeted delivery may be used for detection, diagnosis or treatment of human diseases. In certain embodiments, the peptide may be attached to an imaging agent and administered to a human to obtain an image or to diagnose a disease state. Also disclosed are a large number of targeting peptide sequences and consensus motifs that are selective for human organs or tissues, obtained by the methods of the present invention.

IC ICM C12N
CC 3-1 (Biochemical Genetics)
Section cross-reference(s): 9, 13, 63

IT Antibodies and Immunoglobulins
Antigens
Cytokines
Fibronectins
Growth factors, animal
Hormone antagonists
Hormones, animal, biological studies
Interferons
Interleukin 1
Interleukin 10
Interleukin 11
Interleukin 12
Interleukin 18
Interleukin 2
Interleukin 5
Laminins
Macrophage inflammatory protein 2α
Proteins
Thrombospondins
Tumor necrosis factors
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(conjugated with targeting peptides; phage display libraries and methods for identifying targeting peptides in humans in vivo)

IT Adipose tissue
Animal cell
Animal tissue
Bone marrow
Kidney
Muscle
Organ, animal
Prostate gland
Skin
(targeting peptides specific for; phage display libraries and methods for identifying targeting peptides in humans in vivo)

IT 556-33-2P 17343-02-1P 17608-53-6P 403701-54-2P 403701-55-3P
403701-56-4P 403701-57-5P 403701-58-6P 403701-59-7P 403701-60-0P
403701-61-1P 403701-62-2P 403701-63-3P 403701-64-4P 403701-65-5P
403701-66-6P 403701-67-7P 403701-68-8P 403701-69-9P 403701-70-2P
403703-49-1P 403703-50-4P 403703-51-5P
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(targeting peptide for human *bone* marrow; phage display libraries and methods for identifying targeting peptides in humans in vivo)

IT 20762-31-6P 54944-27-3P 55488-08-9P 61257-72-5P 178440-08-9P
220378-50-7P *403701-07-5P* 403701-08-6P 403701-09-7P
403701-10-0P 403701-11-1P 403701-12-2P 403701-13-3P 403701-14-4P
403701-15-5P 403701-16-6P 403701-17-7P 403701-18-8P 403701-19-9P
403701-20-2P 403701-21-3P 403701-22-4P 403701-23-5P 403701-24-6P
403701-25-7P 403701-26-8P 403701-27-9P 403701-28-0P 403701-29-1P
403701-30-4P 403701-31-5P 403701-32-6P 403701-33-7P 403701-34-8P
403701-35-9P 403701-36-0P 403701-37-1P 403701-38-2P 403701-39-3P
403701-40-6P 403701-41-7P 403701-42-8P 403701-43-9P 403701-44-0P
403701-45-1P 403701-46-2P 403701-47-3P 403701-48-4P 403701-49-5P
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RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); PREP (Preparation); USES (Uses)

(targeting peptide for human *skin*; phage display libraries
and methods for identifying targeting peptides in humans in vivo)

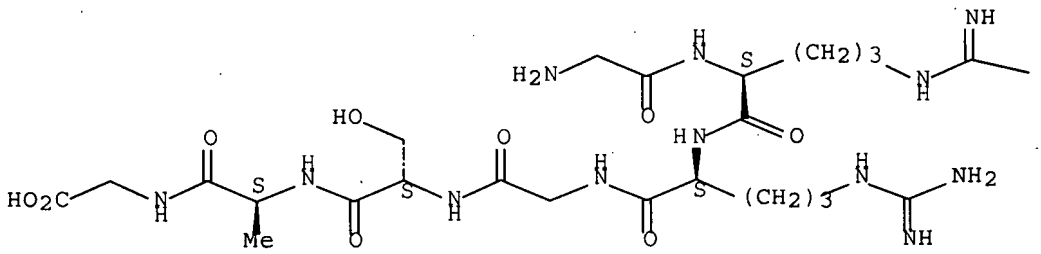
IT *403701-07-5P*
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); PREP (Preparation); USES (Uses)
(targeting peptide for human *skin*; phage display libraries
and methods for identifying targeting peptides in humans in vivo)

RN 403701-07-5 ZCAPLUS

CN Glycine, glycyl-L-arginyl-L-arginylglycyl-L-seryl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NH_2

L95 ANSWER 29 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:185276 ZCAPLUS Full-text

DOCUMENT NUMBER: 136:242898

TITLE: Screening of peptide libraries to identify highly specific ligands and cognate receptors for cell or tissue-specific targeting

INVENTOR(S): Arap, Wadih; Pasqualini, Renata

PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA

SOURCE: PCT Int. Appl., 298 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020722	A2	20020314	WO 2001-US27702	20010907 <--
WO 2002020722	A3	20030206		
WO 2002020722	A9	20030821		

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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG

CA 2421191	A1	20020314	CA 2001-2421191		20010907 <--
AU 200190652	A	20020322	AU 2001-90652		20010907 <--
EP 1315965	A2	20030604	EP 2001-970671		20010907 <--
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JP 2004515751	T	20040527	JP 2002-525729		20010907 <--
CA 2496938	A1	20040311	CA 2002-2496938		20021030 <--
WO 2004020999	A1	20040311	WO 2002-US34987		20021030 <--
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2002364501	A1	20040319	AU 2002-364501		20021030 <--
EP 1546714	A1	20050629	EP 2002-799873		20021030 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK					
US 2004048243	A1	20040311	US 2003-363208		20030902 <--
US 2006094672	A1	20060504	US 2004-489071		20041013 <--
US 2006239968	A1	20061026	US 2006-530168		20060223 <--
PRIORITY APPLN. INFO.:			US 2000-231266P	P	20000908 <--
			US 2001-765101	A	20010117 <--
			US 2001-97651	A	20010117 <--
			WO 2001-US27702	W	20010907 <--
			WO 2002-US27836	A	20020830 <--
			WO 2002-US34987	W	20021030 <--

AB Methods of identify cell or tissue-specific peptide ligands and their cognate receptors for use in targeted drug delivery or gene therapy. A large number of targeting peptides directed towards human organs, tissues or cell types are disclosed. The peptides are of use for targeted delivery of therapeutic agents, including but not limited to gene therapy vectors. A novel class of gene therapy vectors is disclosed. Certain of the disclosed peptides have therapeutic use for inhibiting angiogenesis, inhibiting tumor ***growth***, inducing apoptosis, inhibiting pregnancy or inducing weight loss. Methods of identifying novel targeting peptides in humans, as well as identifying endogenous receptor-ligand pairs are disclosed. Methods of identifying novel infectious agents that are causal for human disease states are also disclosed. A novel mechanism for inducing apoptosis is further disclosed. Screening of a phage display library by direct incubation with ***bone*** marrow to identify ***bone*** marrow-specific ligand peptides is demonstrated. The use of circulating antibodies from prostate cancer patients to identify the antigens. One of the antigens, identified as GRP78, was a strong indicator of survival time and could be used as a prognostic marker. Successful targeting of adeno-associated virus-based vectors to vascular endothelium is demonstrated.

IC ICM C12N

CC 3-1 (Biochemical Genetics)
Section cross-reference(s): 6, 63

IT Angiogenic factors
Chemokines
Cytokines
Growth factors, animal
Hormones, animal, biological studies
Neurotransmitters
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(for cell stimulation in screening peptide libraries by direct cell binding; screening of peptide libraries to identify highly specific ligands and cognate receptors for cell or tissue-specific targeting)

IT *Bone* marrow
Prostate gland, neoplasm
(selection of peptides targeting; screening of peptide libraries to identify highly specific ligands and cognate receptors for cell or tissue-specific targeting)

IT 404334-37-8 404334-38-9 404334-39-0 404334-40-3 404334-41-4
404334-42-5 404334-43-6 404334-44-7 404334-45-8 404334-46-9
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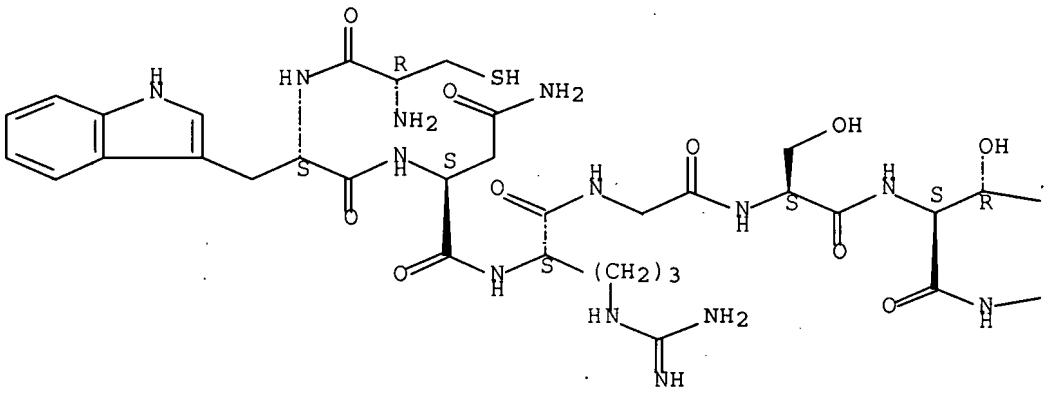
404559-15-5 404559-16-6 404573-98-4
RL: BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(amino acid sequence, cell type-specific peptide ligand; screening of peptide libraries to identify highly specific ligands and cognate receptors for cell or tissue-specific targeting)

IT *404368-27-0*
RL: BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(amino acid sequence, cell type-specific peptide ligand; screening of peptide libraries to identify highly specific ligands and cognate receptors for cell or tissue-specific targeting)

RN 404368-27-0 ZCAPLUS
CN L-Cysteine, L-cysteinyl-L-tryptophyl-L-asparaginyl-L-arginylglycyl-L-seryl-L-threonyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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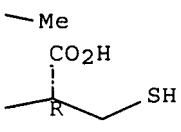


L95 ANSWER 30 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:163844 ZCAPLUS Full-text
DOCUMENT NUMBER: 136:221696
TITLE: *Bone* morphogenetic proteins and their use in *bone growth*
INVENTOR(S): Nimni, Marcel E.; Hall, Frederick L.; Wu, Lingtau; Han, Bo; Shors, Edwin C.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 31 pp., Cont.-in-part of U. S. 5,800,811.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6352972	B1	20020305	US 1997-868452	19970603 <--
US 5800811	A	19980901	US 1995-470837	19950606 <--
WO 9855137	A1	19981210	WO 1998-US11189	19980602 <--
W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9877148	A	19981221	AU 1998-77148	19980602 <--
EP 1047442	A1	20001102	EP 1998-925128	19980602 <--
R: DE, FR, GB, IT				

PRIORITY APPLN. INFO.:			
US 1995-470837	A2	19950606 <--	
US 1997-868452	A	19970603 <--	
WO 1998-US11189	W	19980602 <--	

AB A *bone* morphogenetic fusion protein and a method of preparation of the *bone* morphogenetic fusion protein are disclosed. The *bone* morphogenetic fusion protein comprises a purification tag and a *bone* morphogenetic active fragment. A method of preparing *bone* morphogenetic fusion protein comprises purifying and renaturing *bone* morphogenetic protein to provide an active *bone* morphogenetic fusion protein preparation Methods of use of the *bone* morphogenetic fusion protein are also provided.

IC ICM A61K038-18
ICS C07K014-51
INCL 514012000
CC 63-3 (Pharmaceuticals)
Section cross-reference(s): 1, 2, 3
ST *bone* morphogenetic fusion protein cloning osteogenesis sequence
IT *Bone* formation
Molecular cloning
Protein sequences
Wound healing
Wound healing promoters
cDNA sequences
(*bone* morphogenetic proteins and their use in *bone growth* enhancement)
IT *Bone* morphogenetic protein 10
Bone morphogenetic protein 2
Bone morphogenetic protein 3
Bone morphogenetic protein 4

Bone morphogenetic protein 5
Bone morphogenetic protein 7
Bone morphogenetic protein 8
Bone morphogenetic proteins
Fusion proteins (chimeric proteins)
RL: BPN (Biosynthetic preparation); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(*bone* morphogenetic proteins and their use in *bone growth* enhancement)

IT Human
(*bone* morphogenetic proteins of; *bone* morphogenetic proteins and their use in *bone growth* enhancement)

IT Drug delivery systems
(implants; *bone* morphogenetic proteins and their use in *bone growth* enhancement)

IT Escherichia coli
(mol. cloning in; *bone* morphogenetic proteins and their use in *bone growth* enhancement)

IT Stem cell
(trapping of; *bone* morphogenetic proteins and their use in *bone growth* enhancement)

IT Transforming growth factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(β-; *bone* morphogenetic proteins and their use in *bone growth* enhancement)

IT 64134-30-1, Hexahistidine
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(purification tag; *bone* morphogenetic proteins and their use in *bone growth* enhancement)

IT 402069-82-3 402069-83-4 402069-84-5 402069-85-6 402069-86-7
402069-87-8 402069-88-9, 7: PN: US6352972 SEQID: 25 unclaimed DNA
402069-90-3 402069-91-4 402069-93-6 402069-95-8 402069-97-0
402069-99-2 402070-01-3 402070-03-5 402070-05-7 402070-07-9
RL: PRP (Properties)
(unclaimed nucleotide sequence; *bone* morphogenetic proteins and their use in *bone growth*)

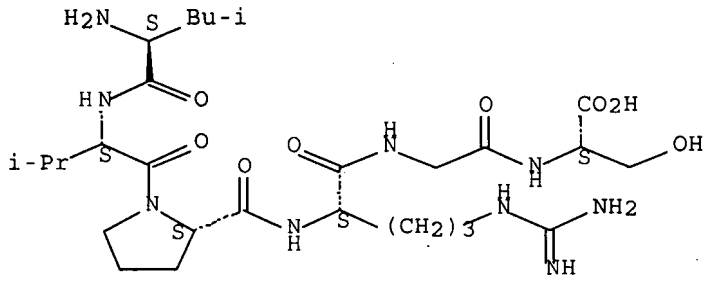
IT 402069-89-0 402069-92-5 402069-94-7 402069-96-9 402069-98-1
402070-00-2 402070-02-4 402070-04-6 402070-06-8 402070-08-0
402070-09-1 402070-10-4 402070-11-5
RL: PRP (Properties)
(unclaimed protein sequence; *bone* morphogenetic proteins and their use in *bone growth*)

IT 7429-70-1 91859-00-6 92000-76-5 99542-45-7 143740-28-7
154485-12-8 *158734-08-8* 185844-61-5 185844-62-6
185844-63-7 185844-64-8 185844-66-0 401928-93-6
RL: PRP (Properties)
(unclaimed sequence; *bone* morphogenetic proteins and their use in *bone growth*)

IT *158734-08-8*
RL: PRP (Properties)
(unclaimed sequence; *bone* morphogenetic proteins and their use in *bone growth*)

RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 31 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:142756 ZCAPLUS Full-text
DOCUMENT NUMBER: 136:211909
TITLE: Human kininogen D5 domain polypeptides, protein and cDNA sequence, recombinant production and uses in inhibiting angiogenesis
INVENTOR(S): Mazar, Andrew P.; Juarez, Jose C.
PATENT ASSIGNEE(S): Attenuon, LLC, USA
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002014369	A2	20020221	WO 2001-US23185	20010724 <--
WO 2002014369	A9	20030403		
WO 2002014369	A3	20020912		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001077119	A5	20020225	AU 2001-77119	20010724 <--
EP 1305342	A2	20030502	EP 2001-954904	20010724 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004515222	T	20040527	JP 2002-519506	20010724 <--
PRIORITY APPLN. INFO.:			US 2000-220194P P	20000724 <--
			WO 2001-US23185 W	20010724 <--

AB Peptides form the human kininogen D5 domain and fusion peptides thereof having angiogenesis-inhibitory activity. These peptides are used in diagnosis and therapy of diseases associated with endothelial cell migration and proliferation, e.g., the treatment of cancer. The invention further relates to nucleic acid mols. encoding said peptides, antibodies to said peptides and methods for isolating said peptides and cells expressing them. The D5 domain

of human kininogen, has one or more of the following properties: (a) inhibits angiogenesis at a IC50 of at least about 1 CLM; (b) binds to a D5 binding site on an endothelial cell with an affinity characterized by a Kd of about 11 M or lower as measured in a direct binding assay to activated endothelial cells or in a competitive binding assay to purified D5 receptor; (c) activates one or more signaling pathways leading to induction of apoptosis in an endothelial cell; or (d) inhibits a signaling pathway required for maintenance of endothelial cell viability. The invention also relates to host cell, genetic vector and methods for recombinant production of said kininogen D5 domain. The invention also relates to isolating and enriching cells expressing D5 domain binding sites from a cell mixture

IC ICM C07K014-81
ICS C07K019-00; C12N015-62; C12N015-15; C07K016-38; A61K051-08; A61K038-57; G01N033-68; C12N005-08; C12N005-10; A61K047-48

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 1, 6, 13

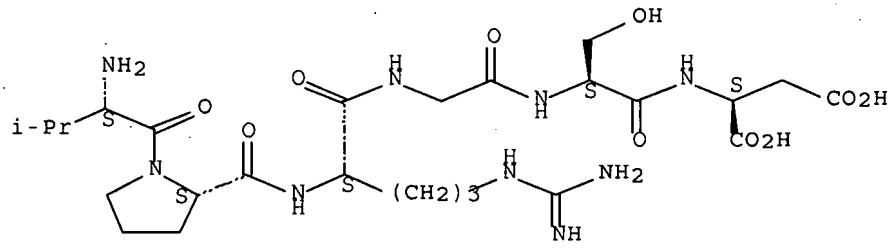
IT ***Bone***, disease
(fracture, treatment of; human kininogen D5 domain polypeptides, protein and cDNA sequence, recombinant production and uses in inhibiting angiogenesis)

IT ***401895-03-2*** 401895-04-3
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(linker sequence; human kininogen D5 domain polypeptides, protein and cDNA sequence, recombinant production and uses in inhibiting angiogenesis)

IT ***401895-03-2***
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(linker sequence; human kininogen D5 domain polypeptides, protein and cDNA sequence, recombinant production and uses in inhibiting angiogenesis)

RN 401895-03-2 ZCAPLUS
CN L-Aspartic acid, L-valyl-L-prolyl-L-arginylglycyl-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 32 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:123987 ZCAPLUS Full-text
DOCUMENT NUMBER: 137:88982
TITLE: Steps toward mapping the human vasculature by phage display
AUTHOR(S): Arap, Wadih; Kolonin, Mikhail G.; Trepel, Martin; Lahdenranta, Johanna; Cardo-Vila, Marina; Giordano, Ricardo J.; Mintz, Paul J.; Ardelt, Peter U.; Yao, Virginia J.; Vidal, Claudia I.; Chen, Limor; Flamm, Anne; Valtanen, Heli; Weavind, Lisa M.; Hicks,

Marshall E.; Pollock, Raphael E.; Botz, Gregory H.; Bucana, Corazon D.; Koivunen, Erkki; Cahill, Dolores; Troncoso, Patricia; Baggerly, Keith A.; Pentz, Rebecca D.; Do, Kim-Anh; Logothetis, Christopher J.; Pasqualini, Renata

CORPORATE SOURCE: Departments of Genito-Urinary Medical Oncology, Cancer Biology, The University of Texas M.D. Anderson Cancer Center, Houston, TX, USA

SOURCE: Nature Medicine (New York, NY, United States) (*2002*), 8(2), 121-127
CODEN: NAMEFI; ISSN: 1078-8956

PUBLISHER: Nature America Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The mol. diversity of receptors in human blood vessels remains largely unexplored. The authors developed a selection method in which peptides that home to specific vascular beds are identified after administration of a peptide library. Here the authors report the first in vivo screening of a peptide library in a patient. The authors surveyed 47, 160 motifs that localized to different organs. This large-scale screening indicates that the tissue distribution of circulating peptides is nonrandom. High-throughput anal. of the motifs revealed similarities to ligands for differentially expressed cell-surface proteins, and a candidate ligand-receptor pair was validated. These data represent a step toward the construction of a mol. map of human vasculature and may have broad implications for the development of targeted therapies.

CC 3-1 (Biochemical Genetics)
Section cross-reference(s): 13

IT Adipose tissue
Blood vessel
Bone marrow
High throughput screening
Human
Muscle
Organ, animal
Peptide library
Phage display library
Prostate gland
Skin
(in vivo selection of peptides that home to specific vascular beds in human after i.v. administration of phage display random peptide library)

IT 556-33-2 3146-40-5 6706-20-3 7451-76-5 10329-76-7 23576-42-3
23828-14-0 97812-05-0 105425-96-5 107889-26-9 110767-13-0
135756-57-9 146790-65-0 175177-22-7 178440-08-9 220378-50-7
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403703-09-3 403703-10-6 403703-11-7 403703-12-8 403703-13-9
403703-14-0 403703-15-1 403703-16-2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (in vivo selection of peptides that home to specific vascular beds in human after i.v. administration of phage display random peptide library)

IT *403701-07-5*

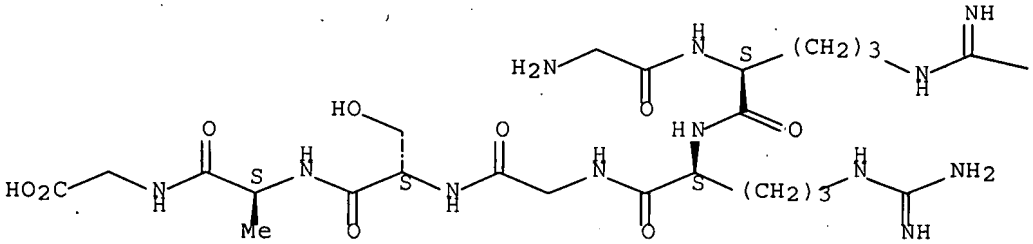
RL: BSU (Biological study, unclassified); BIOL (Biological study) (in vivo selection of peptides that home to specific vascular beds in human after i.v. administration of phage display random peptide library)

RN 403701-07-5 ZCAPLUS

CN Glycine, glycyl-L-arginyl-L-arginylglycyl-L-seryl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 33 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:798033 ZCAPLUS Full-text
DOCUMENT NUMBER: 135:356779
TITLE: Artificial antigen-presenting cells for manipulation of antigen-specific T-cells
INVENTOR(S): Albani, Salvatore
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 195 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001080833	A1	20011101	WO 2000-IT161	20000420 <--

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

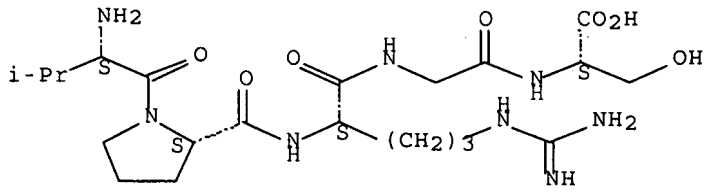
PRIORITY APPLN. INFO.: WO 2000-IT161 20000420 <--

AB The authors discloses the preparation and characterization of artificial antigen-presenting cells. These artificial antigen-presenting cells may be used in isolating and expanding T-cell populations as well as modulating T-cell responses. In several examples, the author discloses methods for the construction of liposomes containing MHC-peptide complexes, accessory mols., co-stimulatory mols., and adhesion mols. In addition, the liposome can contain other mols. irrelevant to T-cell binding or modulation that are used in binding of these artificial antigen-presenting cells to solid support systems that may be used in the retrieval and identification of antigen-specific T-cells. Addnl., the present invention is directed to devices and methods for treating conditions which would benefit from modulation of T-cell response, for example, autoimmune disorders, allergies, cancers, viral infections, and graft rejection.

IC ICM A61K009-127
ICS A61K047-48; C07K014-705; G01N033-569
CC 15-10 (Immunochemistry)
Section cross-reference(s): 3, 9
IT *Dermatomyositis*
(T-cell modulation by artificial antigen-presenting cells in relation to treatment of)
IT *Skin*
(dander; T-cell modulation by artificial antigen-presenting cells in relation to treatment for allergy to)

IT 92915-79-2 122630-93-7 137756-45-7 141368-69-6 163362-49-0
196497-36-6 255867-37-9 265319-26-4 265319-30-0 325484-40-0
372073-85-3 372073-86-4 *372073-87-5* 372073-88-6
372134-96-8 372164-51-7
RL: PRP (Properties)
(unclaimed sequence; artificial antigen-presenting cells for manipulation of antigen-specific T-cells)
IT *372073-87-5*
RL: PRP (Properties)
(unclaimed sequence; artificial antigen-presenting cells for manipulation of antigen-specific T-cells)
RN 372073-87-5 ZCAPLUS
CN L-Serine, L-valyl-L-prolyl-L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 34 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:730565 ZCAPLUS Full-text
DOCUMENT NUMBER: 135:283544
TITLE: Use of insulin for the treatment of cartilaginous disorders
INVENTOR(S): Filvaroff, Ellen H.; Okumu, Franklin W.
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 154 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 155
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072323	A2	20011004	WO 2001-US9230	20010322 <--
WO 2001072323	A3	20020606		
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NZ 528704	A	20050225	NZ 1999-528704	19990308 <--

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CA 2481788          A1    20010308    CA 2000-2481788        20000824 <--
CA 2402191          A1    20011004    CA 2001-2402191        20010322 <--
US 2002058614       A1    20020516    US 2001-815229         20010322 <--
US 6689747          B2    20040210
EP 1265630          A2    20021218    EP 2001-922571         20010322 <--
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    R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
        IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
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AU 759004           B2    20030403    AU 2001-57765          20010801 <--
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JP 2004520810       T     20040715    JP 2002-522275         20010823 <--
US 2003073129       A1    20030417    US 2001-946374         20010904 <--
US 2003207803       A1    20031106    US 2001-143026         20011019 <--
US 2003199021       A1    20031023    US 2001-13924          20011025 <--
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AB The present invention relates to methods for the treatment and repair of cartilage, including cartilage damaged by injury or cartilaginous disorders, including arthritis, comprising the administration of insulin and/or insulin variants. Optionally, the administration may be in combination with a cartilage agent (e.g., peptide *growth* factor, catabolism antagonist, osteo-, synovial, anti-inflammatory factor), in an extended- or sustained-release form. Alternatively, the method provides for the treatment and repair of cartilage damaged by injury or cartilaginous disorders comprising the administration of insulin and/or insulin in combination with standard surgical techniques. Alternatively, the method provides for the treatment and repair of cartilage damaged by injury or cartilaginous disorders comprising the administration of chondrocytes previously treated with an effective amount of insulin and/or insulin variant.

IC ICM A61K038-00

CC 2-6 (Mammalian Hormones)

IT *Bone* morphogenetic proteins
Growth factors, animal
Interleukin 1 receptor antagonist
Interleukin 1 receptors
Interleukin 10
Interleukin 13
Interleukin 4
Interleukin 6
Interleukin 8
Leukemia inhibitory factor
Tetracyclines
Tumor necrosis factor receptors
Tumor necrosis factors
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(addnl. active ingredient; use of formulations containing insulin or insulin variants for treatment of cartilaginous disorders)

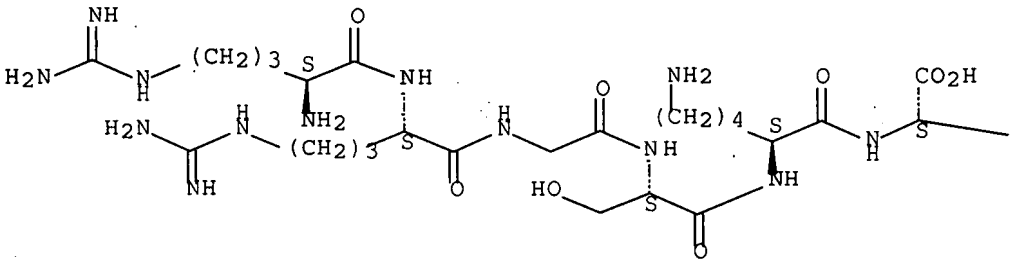
IT 24800-07-5, Insulin (human-A reduced) 27597-36-0, Insulin (human-B reduced) 67413-38-1 *364604-37-5* 364604-38-6 364604-39-7 364604-40-0 364604-41-1
RL: PRP (Properties)
(unclaimed sequence; use of insulin for the treatment of cartilaginous disorders)

IT *364604-37-5*
RL: PRP (Properties)
(unclaimed sequence; use of insulin for the treatment of cartilaginous

disorders)
RN 364604-37-5 ZCAPLUS
CN L-Arginine, L-arginyl-L-arginylglycyl-L-seryl-L-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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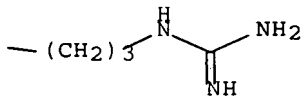

L95 ANSWER 35 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:703735 ZCAPLUS Full-text
DOCUMENT NUMBER: 135:269629
TITLE: Protein fragment complementation assays for the detection of biological or drug interactions
INVENTOR(S): Michnick, Stephen William Watson; Remy, Ingrid
PATENT ASSIGNEE(S): Odyssey Pharmaceuticals Inc., USA
SOURCE: U.S., 41 pp., Cont.-in-part of U.S.6,290,964.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 13
PATENT INFORMATION:

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AB The invention provides a general protein-fragment complementation assays to detect biomol. interactions in vivo and in vitro. The protein-complementation assay/universal reporter system can be used to detect and screen an agonist and an antagonist of a membrane receptor system. The assay can be used to study protein-protein, protein-DNA, protein-RNA, protein-carbohydrate, and protein-small mol. interactions. The assay can be used to screen cDNA libraries for binding of a target protein with unknown proteins or libraries of small organic mols. for biol. activity. Dihydrofolate reductase fragments with leucine zipper motifs were constructed for the reporter system.

IC ICM C12Q001-68
ICS C12N005-10; C12N001-21; C12N015-11; C12N015-63
INCL 435006000
CC 9-2 (Biochemical Methods)
Section cross-reference(s): 1, 3, 6, 7
IT *Bone* morphogenetic protein receptors
CD30 (antigen)
CD40 (antigen)
Chemokine receptors
Cytokine receptors
Erythropoietin receptors
Fas antigen
Fibroblast growth factor receptors
G protein-coupled receptors
Growth factor receptors
Hepatocyte growth factor receptors
Hormone receptors
Insulin-like growth factor receptors
Interleukin 2 receptors
Interleukin 3 receptors
Interleukin 4 receptors
Interleukin 5 receptors

Interleukin 6 receptors
Interleukin 7 receptors
Interleukin 8 receptors
Interleukin receptors
Leukemia inhibitory factor receptors
Ligands
Nerve growth factor receptors
Neurotrophic factor receptors
Nuclear receptors
Platelet-derived growth factor receptors
Proteins, general, biological studies
Receptors
Steroid receptors
Transferrin receptors
Tumor necrosis factor receptors
Vitamin D receptors
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(protein fragment complementation assays for detection of biol. or drug interactions)

IT *Bone* morphogenetic proteins
Chemokines
Fas ligand
Hepatocyte growth factor
Interleukin 1
Interleukin 10
Interleukin 11
Interleukin 12
Interleukin 13
Interleukin 14
Interleukin 15
Interleukin 16
Interleukin 17
Interleukin 18
Interleukin 1α
Interleukin 1β
Interleukin 2
Interleukin 3
Interleukin 4
Interleukin 5
Interleukin 6
Interleukin 7
Interleukin 8
Interleukin 9
Leukemia inhibitory factor
Lymphotoxin
Macrophage inflammatory protein 1α
Macrophage inflammatory protein 1β
Monocyte chemoattractant protein-1
Natural products
Natural products, pharmaceutical
Nucleic acids
Peptides, biological studies
Platelet-derived growth factors
Pleiotrophins
Retinoids
Tumor necrosis factors
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL

(Biological study); PROC (Process)
(protein fragment complementation assays for detection of biol. or drug interactions)

IT *362614-77-5*
RL: PRP (Properties)
(unclaimed sequence; protein fragment complementation assays for the detection of biol. or drug interactions)

IT *362614-77-5*
RL: PRP (Properties)
(unclaimed sequence; protein fragment complementation assays for the detection of biol. or drug interactions)

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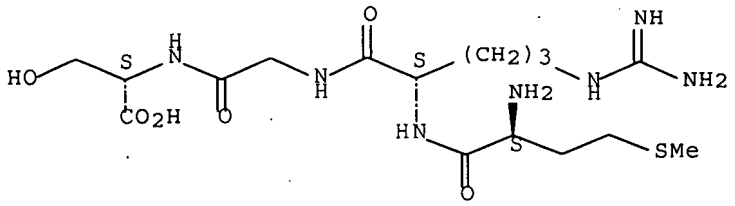
CN L-Serine, L-methionyl-L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 36 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:55205 ZCAPLUS Full-text
DOCUMENT NUMBER: 134:127572
TITLE: New human VEGF/PDGF like factor, VPLF, and uses in diagnosis and therapy
INVENTOR(S): Shitara, Akinari; Sato, Mitsuo; Sakakibara, Toshihiro; Furuya, Akiko; Hirota, Maiko; Shinkai, Akio; Shibata, Takeshi; Ohta, Norio; Nishikawa, Tetsuo; Isogai, Takao; Sugiyama, Tomoyasu; Ishii, Shizuko
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan; Helix Research Institute
SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001017188	A	20010123	JP 2000-122994	20000424 <--
PRIORITY APPLN. INFO.:			JP 1999-115516 A	19990422 <--

AB A new human VEGF/PDGF like protein factor having proliferative activity on rat smooth muscle cells, recombinant expression, are disclosed. Antibodies, and hybridomas for their production are claimed. Oligonucleotide as probes for hybridization and primers for PCR for detecting its gene expression or abnormality, are also claimed. Use of the gene for diagnosis of and therapy for diseases associated with angiogenesis abnormality, particularly eye disease, joint inflammation, ***skin*** disease, abnormality of differentiation and proliferation of smooth muscle cells, kidney mesangial cells, blood stem cells, osteoblast, pancreas β cell abnormality, ischemic disease, or delay of

wound healing, is claimed. Screening of its receptors, and immunol. detection of the protein is claimed. Transgenic animals are claimed. A cDNA clone for a VEGF/PDGF like factor, VPLF, was obtained and sequenced. VPLF gene expression was examined by RT-PCR. Full length and N-terminally truncated VPLF recombinantly expressed in Sf9 cells, CHO cells, showed proliferative activity on rat smooth muscle cells and human microtubule vascular endothelial cells. ELISA for VPLF detection and hybridomas for anti-VPLF monoclonal antibody production were established.

IC ICM C12N015-09
ICS A01K067-027; A61K031-711; A61K038-22; A61K039-395; A61K048-00; A61P003-10; A61P007-00; A61P007-06; A61P009-10; A61P009-14; A61P013-12; A61P015-00; A61P017-00; A61P019-00; A61P019-02; A61P019-10; A61P021-00; A61P027-02; A61P029-00

CC 6-3 (General Biochemistry)
Section cross-reference(s): 2, 3, 13

IT ***Skin***, disease
(proliferative; new human VEGF/PDGF like factor, VPLF, and uses in diagnosis and therapy)

IT 321656-07-9 321656-08-0 321656-09-1 321656-10-4 ***321656-11-5***
321656-12-6 321656-13-7 321656-14-8
RL: PRP (Properties)
(unclaimed sequence; new human VEGF/PDGF like factor, VPLF, and uses in diagnosis and therapy)

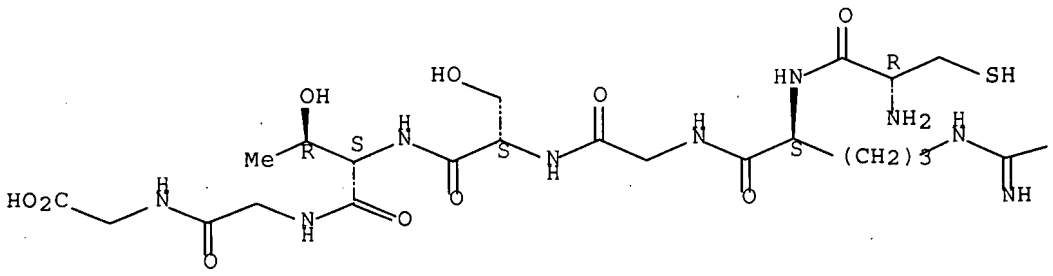
IT ***321656-11-5***
RL: PRP (Properties)
(unclaimed sequence; new human VEGF/PDGF like factor, VPLF, and uses in diagnosis and therapy)

RN 321656-11-5 ZCAPLUS

CN Glycine, L-cysteinyl-L-arginylglycyl-L-seryl-L-threonylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

NH2

L95 ANSWER 37 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:50820 ZCAPLUS Full-text
DOCUMENT NUMBER: 134:126821
TITLE: Antigenic determinants of antigenic proteins of Neisseria meningitidis and their diagnostic, prophylactic and therapeutic use
INVENTOR(S): Masignani, Vega; Scarlato, Vincenzo; Scarselli, Maria; Galeotti, Cesira; Mora, Mariarosa
PATENT ASSIGNEE(S): Chiron S.p.A., Italy
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001004316	A2	20010118	WO 2000-IB1026	20000713
WO 2001004316	A3	20010809		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2378547	A1	20010118	CA 2000-2378547	20000713
EP 1196587	A2	20020417	EP 2000-944161	20000713
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000012424	A	20020702	BR 2000-12424	20000713
JP 2003504062	T	20030204	JP 2001-509520	20000713
CN 1590404	A	20050309	CN 2004-10048988	20000713
RU 2253678	C2	20050610	RU 2002-103604	20000713
MX 2002PA00463	A	20020702	MX 2002-PA463	20020114
PRIORITY APPLN. INFO.:			GB 1999-16529 A	19990714
			CN 2000-812746 A3	20000713
			WO 2000-IB1026 W	20000713

AB Antigenic determinants of known antigenic proteins of Neisseria meningitidis are characterized. The peptides can be used as diagnostic reagents or as antigens for vaccines and they may be manufactured by expression of a natural or synthetic gene encoding the protein. Homologous sequences and proteins comprising these fragments are also disclosed.

IC ICM C12N015-31
ICS C07K014-22; G01N033-53; C12Q001-68; C07K016-12; A61K039-095; A61K039-395; A61K048-00

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 10, 15, *63*

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RL: *BAC (Biological activity or effector, except adverse)*; BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(amino acid sequence, antigenic peptide of Neisseria meningitidis; antigenic determinants of antigenic proteins of Neisseria meningitidis and their diagnostic, prophylactic and therapeutic use)

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RL: *BAC (Biological activity or effector, except adverse)*; BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(amino acid sequence, antigenic peptide of Neisseria meningitidis; antigenic determinants of antigenic proteins of Neisseria meningitidis and their diagnostic, prophylactic and therapeutic use)

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(amino acid sequence, antigenic peptide of Neisseria meningitidis; antigenic determinants of antigenic proteins of Neisseria meningitidis and their diagnostic, prophylactic and therapeutic use)

IT ***158734-09-9 321872-71-3 321880-88-0***
RL: ***BAC (Biological activity or effector, except adverse)***; BSU (Biological study, unclassified); PRP (Properties); ***THU (Therapeutic use)***; BIOL (Biological study); USES (Uses)
(amino acid sequence, antigenic peptide of Neisseria meningitidis; antigenic determinants of antigenic proteins of Neisseria meningitidis and their diagnostic, prophylactic and therapeutic use)

RN 158734-09-9 ZCAPLUS
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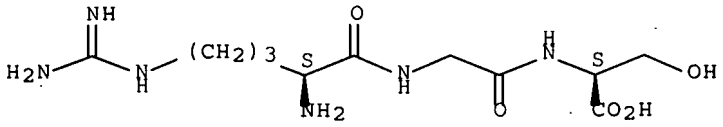
Absolute stereochemistry.



RN 321872-71-3 ZCAPLUS
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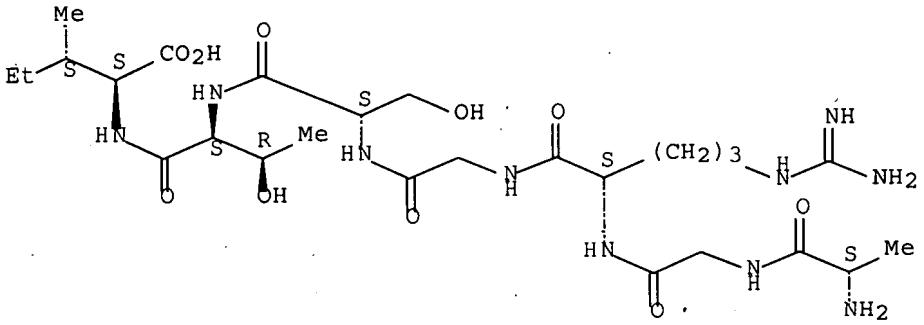
Absolute stereochemistry.



RN 321880-88-0 ZCAPLUS
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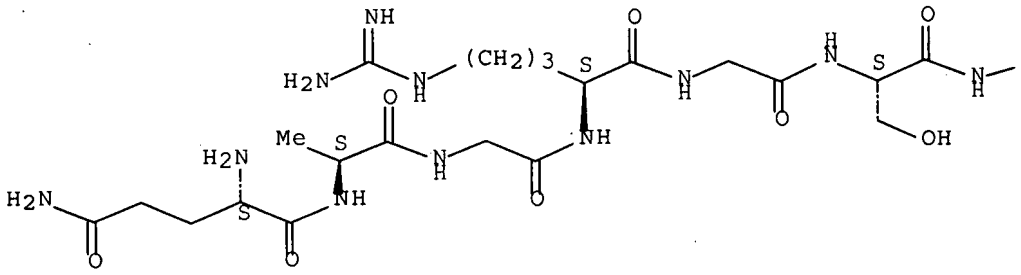
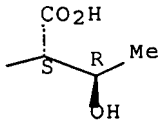
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L95 ANSWER 38 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:493704 ZCAPLUS Full-text
DOCUMENT NUMBER: 133:115152
TITLE: Method for designing protein kinase inhibitors for therapeutic use
INVENTOR(S): Hangauer, David G., Jr.; Marsilje, Thomas H.; Milkiewicz, Karen L.
PATENT ASSIGNEE(S): The Research Foundation of State University of New York, USA
SOURCE: PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
WO 2000042213	A1	20000720	WO 2000-US803		20000113	<--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW						
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG						
CA 2360581	A1	20000720	CA 2000-2360581		20000113	<--
EP 1147214	A1	20011024	EP 2000-909899		20000113	<--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO						
BR 2000007532	A	20011120	BR 2000-7532		20000113	<--
JP 2002534132	T	20021015	JP 2000-593770		20000113	<--
US 7070936	B1	20060704	US 2000-482585		20000113	<--
MX 2001PA07099	A	20020327	MX 2001-PA7099		20010712	<--
US 2006089401	A1	20060427	US 2005-261858		20051027	<--
PRIORITY APPLN. INFO.:			US 1999-115643P	P	19990113	<--
			US 2000-482585	A1	20000113	<--
			WO 2000-US803	W	20000113	<--

OTHER SOURCE(S): MARPAT 133:115152

AB A method is provided for identifying inhibitors of protein kinases. Methods are also provided for inhibiting protein kinase activity. Specific non-peptide protein tyrosine kinase inhibitor are provided. The protein kinases produced using the method of the present invention may be used to treat a number of conditions in patients, including cancer, psoriasis, arthrosclerosis, or immune system activity.

IC ICM C12Q001-00
ICS C12Q001-48; G01N033-543

CC 1-12 (Pharmacology)
Section cross-reference(s): 7, 25, 27

IT 91-20-3D, Naphthalene, derivs., biological studies 92-52-4D, Biphenyl, derivs. 95-15-8D, Benzothiophene, derivs. 119-65-3D, Isoquinoline, derivs. 120-18-3, 2-Naphthalenesulfonic acid 120-72-9D, Indole, derivs. 271-89-6D, Benzofuran, derivs. 518-82-1, Emodin 606-25-7, 1-Naphthalenesulfonamide 1576-47-2, 2-Naphthalenesulfonamide 5122-94-1 5122-95-2 7402-93-9 10083-24-6, Piceatannol 10345-06-9 13922-41-3 21521-77-7 32316-92-0 98437-23-1 98437-24-2 107761-24-0, ST 638 205808-04-4 205808-06-6 284660-58-8 *284660-59-9* 284660-60-2 284660-61-3 284660-62-4 *284660-63-5* *284660-64-6* *284660-65-7* *284660-66-8* 284660-67-9 284660-68-0 284660-69-1 284660-70-4 284660-71-5 284660-72-6 284660-73-7 284660-74-8 284660-75-9 284660-76-0 284660-77-1 284660-78-2 284660-79-3 284660-80-6 284660-81-7 284660-82-8 284660-85-1
RL: *BAC (Biological activity or effector, except adverse)*; BSU (Biological study, unclassified); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(protein kinase inhibitor design for therapeutic use)

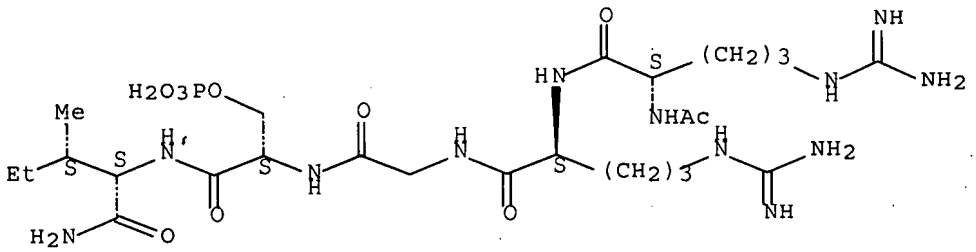
IT 9026-43-1, Protein kinase 79079-06-4, EGF receptor tyrosine kinase 80449-02-1, Protein tyrosine kinase 101463-26-7, Platelet-derived *growth* factor receptor tyrosine protein kinase 114051-78-4 138238-67-2, Bcr-abl tyrosine kinase 141350-03-0 141436-78-4, Protein

kinase C 142008-29-5, Cyclic AMP-dependent protein kinase 142243-02-5, MAP kinase 144697-17-6, Pp60c-src-protein tyrosine kinase 150428-23-2, CDK kinase
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(protein kinase inhibitor design for therapeutic use)

IT *284660-59-9 284660-63-5 284660-64-6 284660-65-7 284660-66-8*
RL: *BAC (Biological activity or effector, except adverse)*; BSU (Biological study, unclassified); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(protein kinase inhibitor design for therapeutic use)

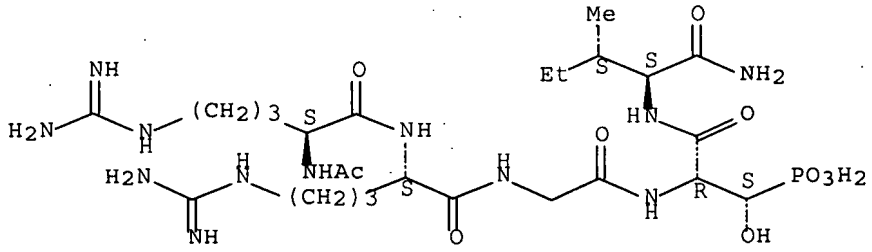
RN 284660-59-9 ZCAPLUS
CN L-Isoleucinamide, N2-acetyl-L-arginyl-L-arginylglycyl-O-phosphono-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



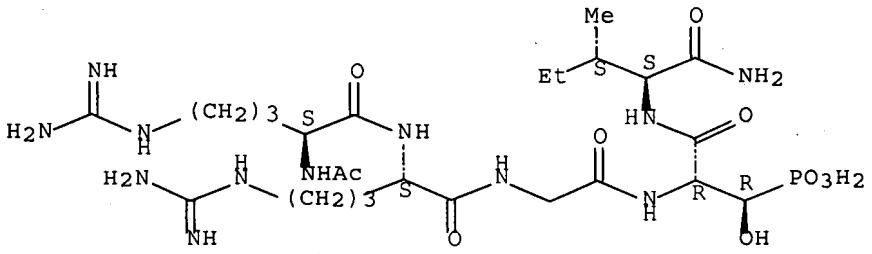
RN 284660-63-5 ZCAPLUS
CN L-Isoleucinamide, N2-acetyl-L-arginyl-L-arginylglycyl-(3S)-3-phosphono-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



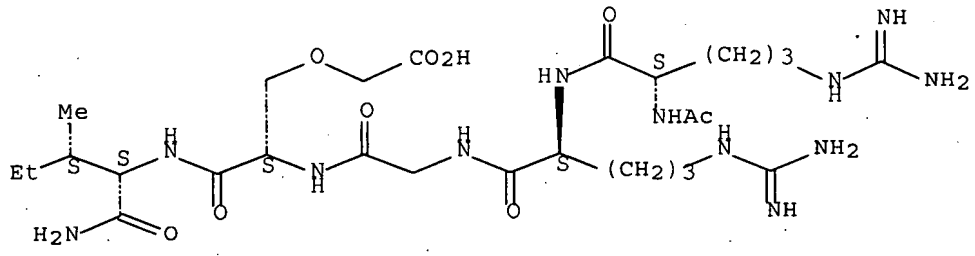
RN 284660-64-6 ZCAPLUS
CN L-Isoleucinamide, N2-acetyl-L-arginyl-L-arginylglycyl-(3R)-3-phosphono-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



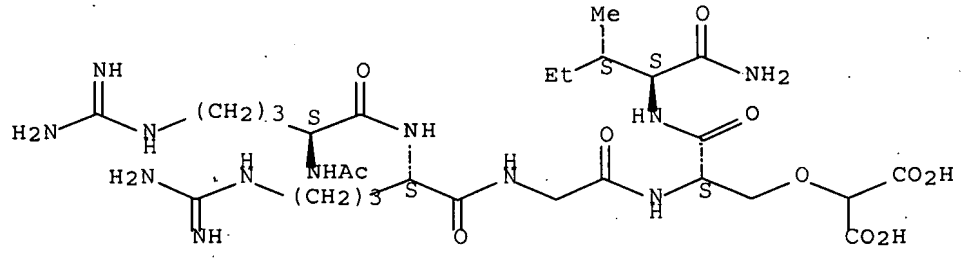
RN 284660-65-7 ZCAPLUS
CN L-Isoleucinamide, N2-acetyl-L-arginyl-L-arginylglycyl-O-(carboxymethyl)-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 284660-66-8 ZCAPLUS
CN L-Isoleucinamide, N2-acetyl-L-arginyl-L-arginylglycyl-O-(dicarboxymethyl)-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 39 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:493164 ZCAPLUS Full-text
DOCUMENT NUMBER: 133:134163
TITLE: Minor histocompatibility antigens and their use in the diagnosis and treatment of tumors
INVENTOR(S): Dolstra, Harmen; Van de Wiel-Van Kemenade, Petronella; Verlinden, Stefan Frederick Franciscus

PATENT ASSIGNEE(S): Introgene B.V., Neth.
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1020519	A1	20000719	EP 1999-200112	19990115 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2359367	A1	20000720	CA 2000-2359367	20000117 <--
WO 2000042181	A1	20000720	WO 2000-NL29	20000117 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1141280	A1	20011010	EP 2000-902202	20000117 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: EP 1999-200112 A 19990115 <--
WO 2000-NL29 W 20000117 <--

AB Human minor histocompatibility Ags (mHag) play an important role in the induction of CTL reactivity against tumors after HLA-identical allogeneic *bone* marrow transplantation (BMT). As most mHag are not tumor specific but also expressed by normal tissues, anti-tumor reactivity is often associated with life-threatening graft-vs.-host disease (GVHD). Here, we describe the use of newly found tumor specific mHag for the development of novel means and methods for the treatment of cancer. In one example we identified a novel mHag, HB-1, that elicits donor-derived CTL reactivity in a B-cell acute lymphoblastic leukemia (B-ALL) patient treated by HLA-matched BMT. We identified the gene encoding the antigenic peptide recognized by a HB-1 specific CTL. Expression of the HB-1 gene was only observed in B-ALL cells and EBV-transformed B cells. Anal. revealed that the HB-1 gene is polymorphic. The restricted expression of the polymorphic HB-1 Ag by B-ALL cells was used in one example of the invention to generate HB-1 specific CTL in vitro using peptide-loaded dendritic cells. HB-1 specific CTL against B-ALL were used to combat B-ALL and were shown to at least in part reduce the *growth* of said leukemia without evoking GVHD.

IC ICM C12N015-12
ICS C07K014-705; C12N015-86; C12N005-10; A61K039-00; A61K031-70; C12N005-08; A61K035-14; C07K016-28; G01N033-574; G01N033-577; A61K039-395; C12Q001-68

CC 15-2 (Immunochemistry)
Section cross-reference(s): 3

IT 139087-73-3 *285979-90-0* 286025-03-4 286025-04-5
286025-05-6
RL: PRP (Properties)
(unclaimed sequence; minor histocompatibility antigens and their use in the diagnosis and treatment of tumors)

IT *285979-90-0*
RL: PRP (Properties)
(unclaimed sequence; minor histocompatibility antigens and their use in

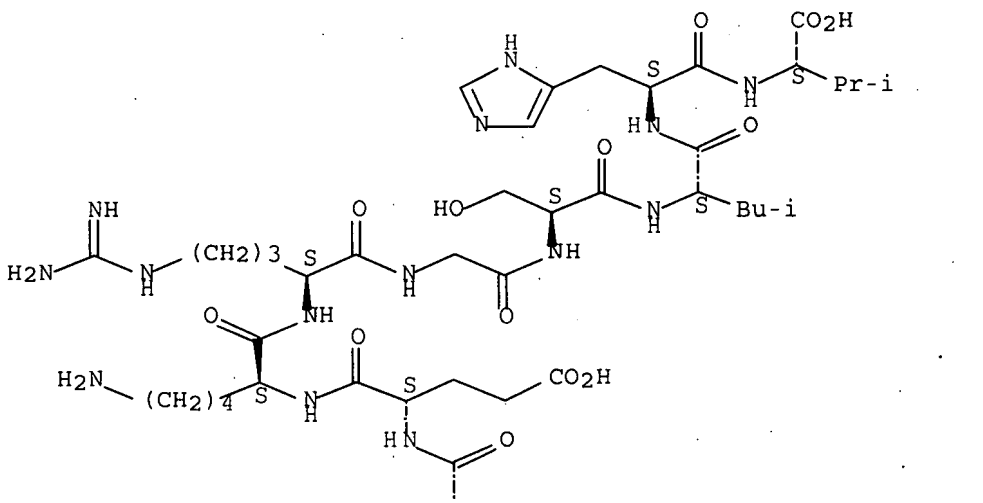
the diagnosis and treatment of tumors)

RN 285979-90-0 ZCAPLUS

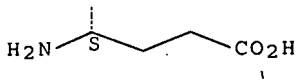
CN L-Valine, L-α-glutamyl-L-α-glutamyl-L-lysyl-L-arginylglycyl-L-seryl-L-leucyl-L-histidyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 40 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:155065 ZCAPLUS Full-text

DOCUMENT NUMBER: 132:304989

TITLE: Specificity of the wound-induced leucine aminopeptidase (LAP-A) of tomato: activity on dipeptide and tripeptide substrates

AUTHOR(S): Gu, Yong-Qiang; Walling, Linda L.

CORPORATE SOURCE: Department of Botany and Plant Sciences and Interdepartmental Program in Genetics, University of California, Riverside, CA, 92521-0124, USA

SOURCE: European Journal of Biochemistry (2000), 267(4), 1178-1187
CODEN: EJBCAI; ISSN: 0014-2956

PUBLISHER: Blackwell Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Wounding of tomato leaves results in the accumulation of an exoprotease called leucine aminopeptidase (LAP-A) that preferentially hydrolyzes amino acid-p-nitroanilide and -β-naphthylamide substrates with N-terminal Leu, Met and Arg residues. To determine the substrate specificity of LAP-A on more natural substrates, the rates of hydrolysis of 60 dipeptide and seven tripeptide substrates were determined For comparison, the specificities of the porcine and Escherichia coli LAPs were evaluated in parallel. Several marked differences in substrate specificities for the animal, plant and prokaryotic LAP enzymes were observed Substrates with variable N-terminal (P1) residues (Xaa) were evaluated; these substrates had Leu or Gly in the penultimate (P1') position. The plant, animal, and prokaryotic LAPs hydrolyzed dipeptides with N-terminal nonpolar aliphatic (Leu, Val, Ile, and Ala), basic (Arg), and sulfur-containing (Met) residues rapidly, while P1 Asp or Gly were cleaved inefficiently from peptides. Significant differences in the cleavage of dipeptides with P1 aromatic residues (Phe, Tyr, and Trp) were noted. To systematically evaluate the impact of the P1' residue on cleavage of dipeptides, three series of dipeptides (Leu-Xaa, Gly-Xaa, and Arg-Xaa) were evaluated. The P1' residue strongly influenced hydrolysis of dipeptides and the magnitude of its effect was dependent on the P1 residue. P1' Pro, Asp, Lys and Gly slowed the hydrolysis rates of the tomato LAP-A, porcine LAP, and E. coli PepA markedly. Anal. six Arg-Gly-Xaa tripeptides showed that more diversity was tolerated in the P2' position. P2' Arg inhibited tripeptide cleavage by all three enzymes, while P2' Asp enhanced hydrolysis rates for the porcine and prokaryotic LAPs.

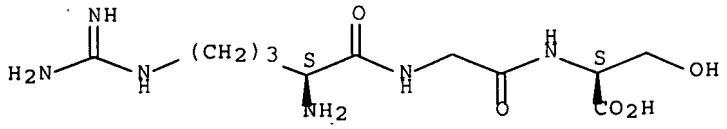
CC 7-2 (Enzymes)
Section cross-reference(s): 11

IT 556-50-3 686-50-0 869-19-2 1187-50-4, Leu-gly-gly 1188-24-5 2418-67-9 3303-31-9 20274-92-4 23576-41-2 27169-55-7 55033-29-9 99896-85-2 *158734-09-9*
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(specificity of wound-induced leucine aminopeptidase (LAP-A) of tomato)

IT *158734-09-9*
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(specificity of wound-induced leucine aminopeptidase (LAP-A) of tomato)

RN 158734-09-9 ZCAPLUS
CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 41 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:83091 ZCAPLUS Full-text
DOCUMENT NUMBER: 132:136407
TITLE: Peptides of human T cell reactive feline protein (TRFP)
INVENTOR(S): Gefter, Malcolm L.; Garman, Richard D.; Greenstein, Julia L.; Kuo, Mei-chang; Morville, Malcolm; Briner,

Thomas J.
PATENT ASSIGNEE(S): Immulogic Pharmaceutical Corp., USA
SOURCE: U.S., 105 pp., Cont.-in-part of U.S. 5,547,669.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6019972	A	20000201	US 1994-300928	19940902 <--
US 5547669	A	19960820	US 1991-807529	19911213 <--
ZA 9302122	A	19950425	ZA 1993-2122	19930325 <--
AU 9341026	A	19941108	AU 1993-41026	19930414 <--
AU 680820	B2	19970814		
EP 694067	A1	19960131	EP 1993-910592	19930414 <--
EP 694067	B1	20060208		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 09501043	T	19970204	JP 1994-523074	19930414 <--
AT 317433	T	20060215	AT 1993-910592	19930414 <--
US 6048962	A	20000411	US 1995-430014	19950427 <--
US 6025162	A	20000215	US 1995-430944	19950428 <--
US 6120769	A	20000919	US 1995-431184	19950428 <--
FI 9504895	A	19951013	FI 1995-4895	19951013 <--
NO 9504095	A	19951213	NO 1995-4095	19951013 <--
NO 316922	B1	20040628		
FI 9603331	A	19960827	FI 1996-3331	19960827 <--
FI 104906	B1	20000428		

PRIORITY APPLN. INFO.:

US 1989-431565	B2	19891103 <--
US 1991-662276	B2	19910228 <--
US 1991-807529	A2	19911213 <--
US 1992-857311	B2	19920325 <--
US 1992-884718	B2	19920515 <--
US 1993-6116	B2	19930115 <--
EP 1993-910592	A	19930414 <--
WO 1993-US3471	W	19930414 <--
US 1994-300928	A3	19940902 <--
FI 1995-4895	A	19951013 <--

AB A substantially pure, covalently linked human T cell reactive feline protein (TRFP) has been isolated from vacuum bag extract obtained by affinity purification of house dust collected from several homes with cats; DNA encoding all or a portion of the TRFP or peptide; compns. containing such a protein or peptide or portions thereof; and antibodies reactive with the TRFP or peptide are disclosed. Also disclosed are recombinant TRFP or peptide; modified or mutated TRFP peptides; their use for diagnostic or therapeutic purposes.

IC ICM A61K039-35
ICS C07K007-00; C07K007-06; C07K007-08; C07K014-47
INCL 424185100
CC 15-2 (Immunochemistry)
Section cross-reference(s): 3, 63
IT Salivary gland
Skin
(allergen; peptides of human T cell reactive feline protein or TRFP for diagnosis and therapy of cat allergy)
IT *Skin*
(dander; peptides of human T cell reactive feline protein or TRFP for diagnosis and therapy of cat allergy)
IT 149013-73-0 *158734-08-8* 197170-32-4

RL: PRP (Properties)
(unclaimed protein sequence; peptides of human T cell reactive feline protein (TRFP))

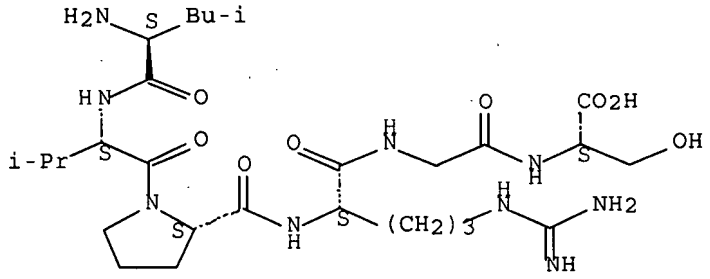
IT *158734-08-8*

RL: PRP (Properties)
(unclaimed protein sequence; peptides of human T cell reactive feline protein (TRFP))

RN 158734-08-8 ZCAPLUS

CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 42 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:595206 ZCAPLUS Full-text

DOCUMENT NUMBER: 131:223515

TITLE: Molecules that home to various selected organs or tissues for therapeutic and diagnostic use

INVENTOR(S): Rajotte, Daniel; Pasqualini, Renata; Ruoslahti, Erkki I.

PATENT ASSIGNEE(S): The Burnham Institute, USA

SOURCE: PCT Int. Appl., 193 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9946284	A2	19990916	WO 1999-US5284	19990310 <--
WO 9946284	A3	20000406		
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6232287	B1	20010515	US 1998-42107	19980313 <--
US 6174687	B1	20010116	US 1999-258754	19990226 <--
CA 2323071	A1	19990916	CA 1999-2323071	19990310 <--
AU 9930783	A	19990927	AU 1999-30783	19990310 <--
AU 762991	B2	20030710		
EP 1062232	A2	20001227	EP 1999-912400	19990310 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002506079	T	20020226	JP 2000-535660	19990310 <--

US 6784153	B1	20040831	US 2000-676475		20000929 <--
US 6610651	B1	20030826	US 2000-722250		20001122 <--
US 2005074812	A1	20050407	US 2003-607595		20030627 <--
US 6933281	B2	20050823			
PRIORITY APPLN. INFO.:			US 1998-42107	A	19980313 <--
			US 1999-258754	A	19990226 <--
			WO 1999-US5284	W	19990310 <--
			US 2000-722250	A3	20001122 <--

OTHER SOURCE(S): MARPAT 131:223515

AB Mols. are provided that selectively home to various normal organs or tissues, including to lung, pancreas, ***skin***, retina, prostate, ovary, lymph node, adrenal gland, liver, and gut. Also provided are mols. that selectively home to tumor-bearing organs or tissues, including to pancreas bearing a pancreatic tumor or to lung bearing a lung tumor. The invention also provides conjugates, comprising an organ- or tissue-homing mol. linked to a moiety. Such a moiety can be e.g. a therapeutic agent or a detectable agent. The invention also provides a method of identifying a membrane dipeptidase (MDP)-binding homing mol. that selectively homes to lung endothelium. The method includes contacting MDP with one or more mols. and determining specific binding of a mol. to the MDP, where the presence of specific binding identifies the mol. as a MDP-binding homing mol. that selectively homes to lung endothelium. Such MDP-binding homing mols. can be linked to a moiety and, when administered to a subject as a conjugate, can selectively direct the moiety to lung endothelium in the subject.

IC C07K007-06; C07K007-08; A61K038-08; A61K038-10; A61K031-195

CC 1-12 (***Pharmacology***)
Section cross-reference(s): 9, 34

IT Adrenal gland
Adrenal gland, disease
Blood vessel
Digestive tract
Drug screening
Drug targeting
Gene therapy
Liver
Liver, disease
Lung
Lung, disease
Lymph node
Ovary
Ovary, disease
Pancreas
Pancreas, disease
Peptide library
Phage display library
Prostate gland
Protein sequences
Skin
Skin, disease
(mols. that home to various selected organs or tissues for therapeutic and diagnostic use)

IT 243961-35-5 243961-36-6 243961-37-7 243961-38-8 243961-39-9
243961-40-2 243961-41-3 243961-42-4 243961-43-5 243961-44-6
243961-45-7 243961-46-8 243961-47-9 243961-48-0 243961-51-5
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243961-78-6 243961-79-7 ***243961-80-0***

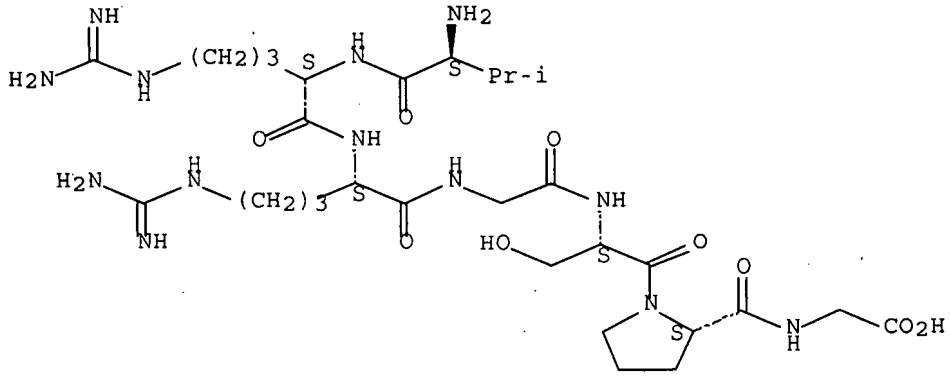
243961-81-1 243961-82-2 243961-83-3 243961-84-4
243961-85-5 243961-86-6 243961-87-7 243961-88-8 243961-89-9
243961-90-2 243961-91-3 243961-92-4 243961-93-5 243961-94-6
243961-95-7 243961-96-8 243961-97-9 243961-98-0 243961-99-1
243962-00-7 243962-01-8 243962-02-9 243962-03-0 243962-04-1
243962-05-2 243962-06-3 243962-07-4 243962-08-5 243962-09-6
243962-10-9 243962-11-0 243962-12-1 243962-13-2 243962-14-3
243962-17-6 243962-18-7 243962-19-8 243962-20-1 243962-21-2
243962-22-3 243962-34-7
RL: *BAC (Biological activity or effector, except adverse)*; BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(mols. that home to various selected organs or tissues for therapeutic and diagnostic use)

IT 131134-25-3 *158734-09-9* 206558-85-2 243961-49-1
243962-15-4 243962-16-5
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(peptides containing sequence fragment of; mols. that home to various selected organs or tissues for therapeutic and diagnostic use)

IT *243961-78-6 243961-80-0 243961-81-1*
RL: *BAC (Biological activity or effector, except adverse)*; BSU (Biological study, unclassified); PRP (Properties); *THU (Therapeutic use)*; BIOL (Biological study); USES (Uses)
(mols. that home to various selected organs or tissues for therapeutic and diagnostic use)

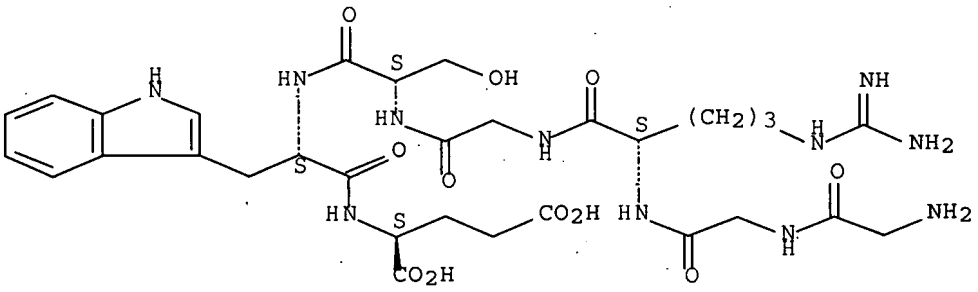
RN 243961-78-6 ZCAPLUS
CN Glycine, L-valyl-L-arginyl-L-arginylglycyl-L-seryl-L-prolyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



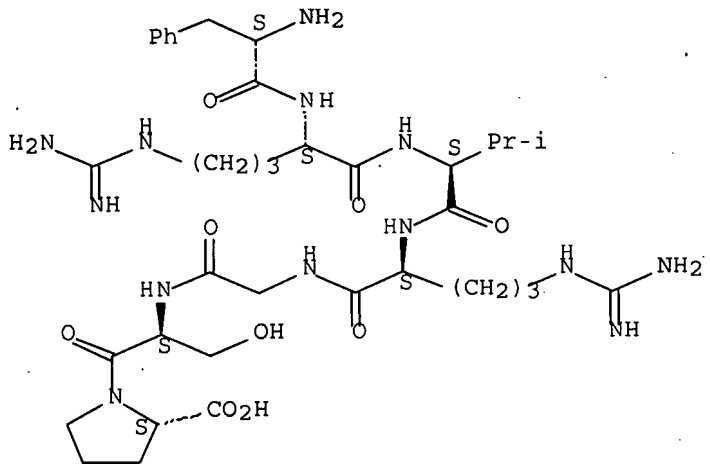
RN 243961-80-0 ZCAPLUS
CN L-Glutamic acid, glycylglycyl-L-arginylglycyl-L-seryl-L-tryptophyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



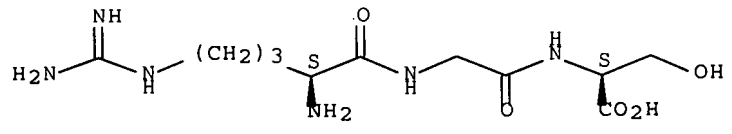
RN 243961-81-1 ZCAPLUS
CN L-Proline, L-phenylalanyl-L-arginyl-L-valyl-L-arginylglycyl-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT *158734-09-9*
RL: BSU (Biological study, unclassified); BIOL (Biological study) (peptides containing sequence fragment of; mols. that home to various selected organs or tissues for therapeutic and diagnostic use)
RN 158734-09-9 ZCAPLUS
CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 43 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:804196 ZCAPLUS Full-text
DOCUMENT NUMBER: 130:49530
TITLE: ***Bone*** morphogenetic proteins and their use in ***bone growth***
INVENTOR(S): Nimni, Marcel E.; Hall, Frederick L.; Wu, Lingtao; Han, Bo; Shors, Edwin C.
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9855137	A1	19981210	WO 1998-US11189	19980602 <--
W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6352972	B1	20020305	US 1997-868452	19970603 <--
AU 9877148	A	19981221	AU 1998-77148	19980602 <--
EP 1047442	A1	20001102	EP 1998-925128	19980602 <--
R: DE, FR, GB, IT				

PRIORITY APPLN. INFO.:			
US 1997-868452	A	19970603 <--
US 1995-470837	A2	19950606 <--
WO 1998-US11189	W	19980602 <--

AB A ***bone*** morphogenetic fusion protein and a method of preparation of the ***bone*** morphogenetic fusion protein are described. The ***bone*** morphogenetic fusion protein comprises a purification tag and a ***bone*** morphogenetic active fragment. A method of preparing ***bone*** morphogenetic fusion protein comprises purifying and renaturing ***bone*** morphogenetic protein to provide an active ***bone*** morphogenetic fusion protein preparation Methods of use of the ***bone*** morphogenetic fusion protein are also provided.

IC ICM A61K038-18
ICS C07H021-04; C12N001-21; C12P021-00; G01N033-53

CC 9-16 (Biochemical Methods)
Section cross-reference(s): 3, 6, 13, 14

ST ***bone*** morphogenetic protein chimera prepn

IT ***Bone*** morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(10; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT ***Bone*** morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(2; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT ***Bone*** morphogenetic proteins

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(3; *bone* morphogenetic proteins and their use in *bone growth*)

IT *Bone* morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(4; *bone* morphogenetic proteins and their use in *bone growth*)

IT *Bone* morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(5; *bone* morphogenetic proteins and their use in *bone growth*)

IT *Bone* morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(6; *bone* morphogenetic proteins and their use in *bone growth*)

IT *Bone* morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(7; *bone* morphogenetic proteins and their use in *bone growth*)

IT *Bone* morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(8; *bone* morphogenetic proteins and their use in *bone growth*)

IT *Bone* morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(9; *bone* morphogenetic proteins and their use in *bone growth*)

IT Fusion proteins (chimeric proteins)
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(*bone* morphogenetic protein; *bone* morphogenetic proteins and their use in *bone growth*)

IT *Bone*
Bone formation
Cell proliferation
Chelating agents
DNA sequences

Genetic vectors
Mammal (Mammalia)
Protein sequences
Reducing agents
Schistosoma japonicum
Skin
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Osteopontin
RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); MFM (Metabolic formation); ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Fibronectins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT ***Bone*** morphogenetic proteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Collagens, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Gelatins, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Promoter (genetic element)
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT DNA
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Growth, animal
Wound healing
(***bone***; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Chromatography
(chelation; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Conformation
Denaturation
(protein, renaturation; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Mesenchyme

(stem cell; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Transforming growth factors
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(β-; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT Transforming growth factors
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(β1-; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT 9001-99-4
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(S, purification tag; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT 134548-22-4P, Glycoprotein (human ***bone*** morphogenetic 5 subunit protein moiety reduced) 134548-23-5P, Glycoprotein (human ***bone*** morphogenetic 6 subunit protein moiety reduced) 134548-24-6P, Glycoprotein (human ***bone*** morphogenetic 7 subunit protein moiety reduced) 146869-98-9P, Osteogenin (human B subunit reduced) 163547-17-9P 217443-72-6P
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(amino acid sequence; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT 5874-90-8 18635-55-7 26698-64-6 61430-14-6 78641-59-5 99542-45-7 154485-12-8 ***158734-08-8*** 185844-61-5 185844-62-6 185844-63-7 185844-64-8 185844-65-9 185844-66-0
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process); USES (Uses)
(amino acid sequence; ***bone*** morphogenetic proteins and their use in ***bone growth***)

IT 9001-75-6, Pepsin 9001-90-5, Plasmin 9001-98-3, Chymosin 9002-04-4, Thrombin 9002-05-5, Blood-coagulation factor Xa 9002-07-7, Trypsin 9004-06-2, Elastase 9004-07-3, Chymotrypsin 9073-78-3, Thermolysin
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT 1306-06-5, Hydroxyapatite
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(***bone*** morphogenetic proteins and their use in ***bone growth***)

IT 56-81-5, 1,2,3-Propanetriol, biological studies 57-13-6, Urea, biological studies 60-24-2 70-18-8, Reduced glutathione, biological studies 77-86-1, Tris (buffering agent) 7632-05-5, Sodium phosphate 7647-14-5, Sodium chloride, biological studies 9005-32-7, Alginic acid 9016-45-9 27025-41-8, Oxidized glutathione 34346-01-5, Poly(DL-lactic acid-glycolic acid)
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU

(Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(*bone* morphogenetic proteins and their use in *bone growth*)

IT 9004-67-5, Methylcellulose
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(gel; *bone* morphogenetic proteins and their use in *bone growth*)

IT 163547-16-8 217306-12-2 217306-16-6 217306-17-7 217306-18-8
217443-73-7 217443-74-8 217443-75-9 217443-76-0 217443-80-6
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(nucleotide sequence; *bone* morphogenetic proteins and their use in *bone growth*)

IT 7429-70-1 64134-30-1 92000-76-5
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(purification tag, amino acid sequence; *bone* morphogenetic proteins and their use in *bone growth*)

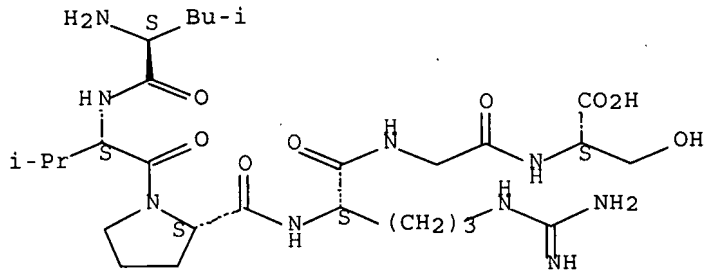
IT 71-00-1D, L-Histidine, poly-, biological studies 50812-37-8, Glutathione S-transferase
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(purification tag; *bone* morphogenetic proteins and their use in *bone growth*)

IT 9001-92-7, Proteinase
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
(site; *bone* morphogenetic proteins and their use in *bone growth*)

IT *158734-08-8*
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process); USES (Uses)
(amino acid sequence; *bone* morphogenetic proteins and their use in *bone growth*)

RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 44 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:666318 ZCAPLUS Full-text
DOCUMENT NUMBER: 130:22083
TITLE: In vivo selection of protease cleavage sites from retrovirus display libraries
AUTHOR(S): Buchholz, Christian J.; Peng, Kah-Whye; Morling, Frances J.; Zhang, Jie; Cosset, Francois-Loic; Russell, Stephen J.
CORPORATE SOURCE: Cambridge Centre for Protein Engineering, Medical Research Council Centre, Cambridge, CB2 2QH, UK
SOURCE: Nature Biotechnology (*1998*), 16(10), 951-954
CODEN: NABIF9; ISSN: 1087-0156
PUBLISHER: Nature America
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Phage display libraries are widely used for selection and optimization of polypeptide ligands or protease substrates. Because they are expressed and amplified in bacterial hosts, phage are not ideal for displaying eukaryotic polypeptides or for probing mammalian cells. As retroviruses do not suffer from these limitations we constructed plasmids encoding replication-competent murine leukemia viruses displaying a virally encoded *epidermal growth* factor (EGF) domain at the N-terminus of the envelope glycoprotein. The EGF-displaying viruses replicated freely on EGF receptor-poor cells without deleting the displayed EGF domain but did not propagate on EGF receptor-rich cells because they were sequestered by the EGF receptors. A retrovirus display library was then generated by diversifying the seven-residue linker between the envelope glycoprotein and the displayed EGF domain. Selective pressure for loss of EGF receptor-binding activity was applied to the library by serial passage on EGF receptor-rich HT1080 cells. The selected viruses propagated on these cells with wild-type efficiencies, a phenotype that was conferred by intracellular cleavage of their displayed linker sequences. The selected linker sequences invariably presented arginine-rich motifs matching the consensus cleavage signal for furin-like proteases. Retrovirus display libraries can be used for the selection of polypeptides interacting with components of living mammalian cells.

CC 7-3 (Enzymes)
Section cross-reference(s): 3

IT 62229-50-9, *Epidermal* growth factor
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(in vivo selection of cellular proteinase cleavage sites from retrovirus display libraries)

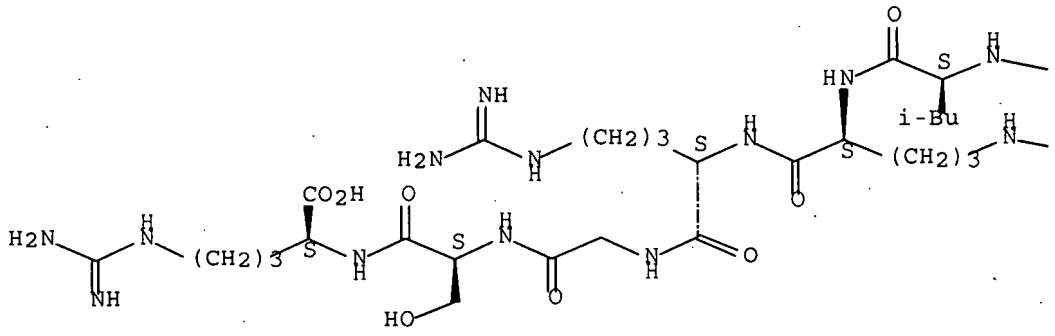
IT *216301-14-3* 216301-15-4 216301-16-5 216301-17-6 216301-18-7 216301-19-8
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(linker peptide cleavage site; in vivo selection of cellular proteinase cleavage sites from retrovirus display libraries)

IT *216301-14-3*
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(linker peptide cleavage site; in vivo selection of cellular proteinase cleavage sites from retrovirus display libraries)

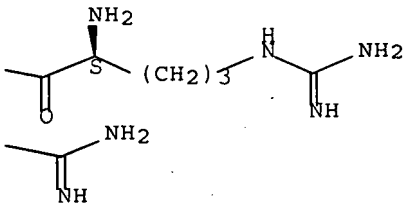
RN 216301-14-3 ZCAPLUS
CN L-Arginine, L-arginyl-L-leucyl-L-arginyl-L-arginylglycyl-L-seryl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 45 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:42310 ZCAPLUS Full-text
DOCUMENT NUMBER: 128:119708
TITLE: Heparinized medical devices containing heparin-binding *growth* factor conjugates
INVENTOR(S): Pierce, Glenn; Baird, J. Andrew
PATENT ASSIGNEE(S): Prizm Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 100 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9749434	A2	19971231	WO 1997-US10685	19970620 <--
WO 9749434	A3	19980226		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,

GN, ML, MR, NE, SN, TD, TG

CA 2258154	A1	19971231	CA 1997-2258154		19970620 <--
AU 9736412	A	19980114	AU 1997-36412		19970620 <--
EP 923387	A2	19990623	EP 1997-933150		19970620 <--
EP 923387	B1	20010926			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
AT 206059	T	20011015	AT 1997-933150		19970620 <--
JP 2002515784	T	20020528	JP 1998-503367		19970620 <--
PRIORITY APPLN. INFO.:			US 1996-672353	A	19960624 <--
			WO 1997-US10685	W	19970620 <--

AB Medical devices are coated with heparin and a heparin-binding *growth* factor-cytotoxic agent conjugate is bound to the heparin. The devices, including stents, are used to inhibit undesired cell proliferation or kill unwanted cells. A stent coated with heparin and bound with conjugate may be used to inhibit restenosis.

IC ICM A61L

CC 63-7 (Pharmaceuticals)

IT Nucleic acids
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(-binding domains, of glycosaminoglycan-cytocide conjugates; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(RIP (ribosome-inactivating protein); heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Artery
(angioplasty; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Artery
(endarterectomy; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Medical goods
(grafts, synthetic; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Fluoropolymers, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(grafts; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT *Growth* factors, animal
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(heparin-binding; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Molecular cloning
Protein sequences
cDNA sequences
(heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Cytotoxic agents
Fibroblast *growth* factor receptors
Glycosaminoglycans, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Cell proliferation
(inhibition of, of vascular smooth muscle; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(saporins; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Blood vessel
(smooth muscle, inhibition of proliferation of; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Medical goods
(stents; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Vein
Vein
(transplant; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT Transplant and Transplantation
Transplant and Transplantation
(vein; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT 9002-84-0, Polytetrafluoroethylene
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(grafts; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT 9005-49-6, Heparin, biological studies 106096-92-8 106096-93-9, Fibroblast *growth* factor 2 123584-45-2, Fibroblast *growth* factor 4 129653-64-1, Fibroblast *growth* factor 5 130939-41-2, Fibroblast *growth* factor 6 148348-14-5, Fibroblast *growth* factor 3 148348-15-6, Fibroblast *growth* factor 7 151185-16-9, Fibroblast *growth* factor 9 164003-41-2, Fibroblast *growth* factor 8
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic agents to inhibit restenosis)

IT 9002-04-4, Thrombin 9002-05-5, Factor xa 9014-74-8, Enterokinase 9025-26-7, Cathepsin D 9047-22-7, Cathepsin B
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(linker for substrate of; heparinized medical devices containing heparin-binding *growth* factor conjugates with cytotoxic

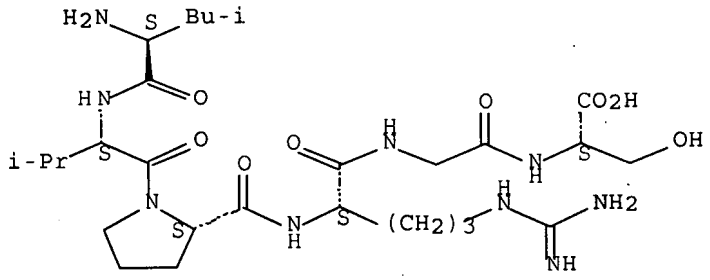
agents to inhibit restenosis)

IT 2543-43-3 54017-28-6 91859-00-6 ***158734-08-8*** 192805-56-4 201533-87-1 201533-88-2
RL: PEP (Physical, engineering or chemical process); ***THU (Therapeutic use)***; BIOL (Biological study); PROC (Process); USES (Uses)
(linker peptide; heparinized medical devices containing heparin-binding ***growth*** factor conjugates with cytotoxic agents to inhibit restenosis)

IT ***158734-08-8***
RL: PEP (Physical, engineering or chemical process); ***THU (Therapeutic use)***; BIOL (Biological study); PROC (Process); USES (Uses)
(linker peptide; heparinized medical devices containing heparin-binding ***growth*** factor conjugates with cytotoxic agents to inhibit restenosis)

RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 46 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:667377 ZCAPLUS Full-text
DOCUMENT NUMBER: 127:278451
TITLE: Magic Angle Spinning Nuclear Magnetic Resonance in Solid-Phase Peptide Synthesis
AUTHOR(S): Dhalluin, Christophe; Boutillon, Christophe; Tartar, Andre; Lippens, Guy
CORPORATE SOURCE: Institut Pasteur de Lille, CNRS URA 1309, Lille, 59019, Fr.
SOURCE: Journal of the American Chemical Society (*1997*), 119(43), 10494-10500
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Solid-phase peptide synthesis of certain sequences (commonly called "difficult sequences") suffers from the occurrence of incomplete coupling reactions and/or partial ***unmaskings*** of Nα-protection. The underlying reasons for these problems are thought to be a structuration and/or a poor solvation of the growing peptide chains. Few methods are available to study the structural aspects of the peptide chains when still anchored to the solid support. In most cases, they rely on the incorporation of a specific label and examine therefore a modified peptide analog. The complete characterization by homonuclear and heteronuclear magic angle spinning NMR (MAS NMR) of the solid-phase synthesis of a 10-residue peptide is described. A detailed secondary structure determination of the growing peptide on the resin beads, based on

the NOE anal. and the 1H and 13C chemical shift deviations, indicated an extended structure on the whole length of the sequence. At critical synthesis steps, a correlation between the coupling difficulties and the aggregation of the peptide chains was established by chemical measurements and MAS NMR. Upon titration with the hydrogen bond-accepting solvent DMSO, the mobility of the peptide chains on the resin beads increased, resulting in a significant line narrowing of the MAS NMR spectra. This increased mobility is linked to an enhanced peptidyl-resin solvation as reflected by the better coupling efficiency at the critical synthesis steps.

CC 34-3 (Amino Acids, Peptides, and Proteins)

IT *196702-94-0DP*, C-terminal resin-bound *196702-95-1DP*, C-terminal resin-bound *196702-96-2DP*, C-terminal resin-bound 196702-97-3DP, C-terminal resin-bound 196702-98-4DP, C-terminal resin-bound
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(magic angle spinning NMR of resin-bound intermediates in solid-phase peptide synthesis)

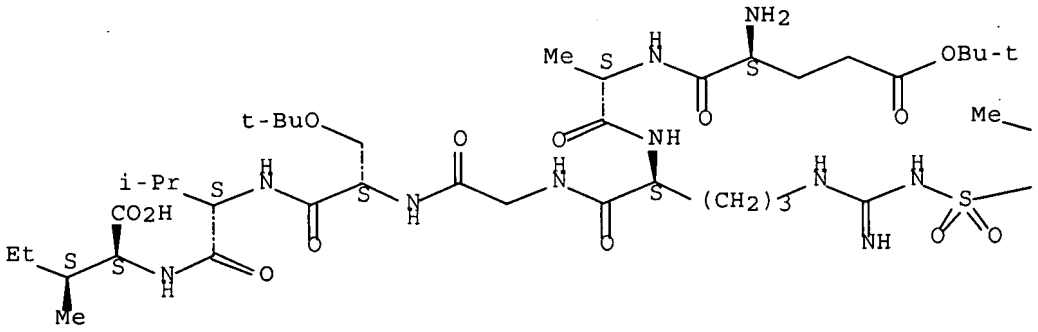
IT *196702-94-0DP*, C-terminal resin-bound *196702-95-1DP*, C-terminal resin-bound *196702-96-2DP*, C-terminal resin-bound
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(magic angle spinning NMR of resin-bound intermediates in solid-phase peptide synthesis)

RN 196702-94-0 ZCAPLUS

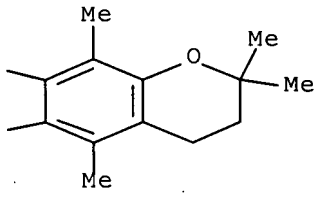
CN L-Isoleucine, L-α-glutamyl-L-alanyl-N5-[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-yl)sulfonyl]amino]iminomethyl]-L-ornithylglycyl-O-(1,1-dimethylethyl)-L-seryl-L-valyl-, 1-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



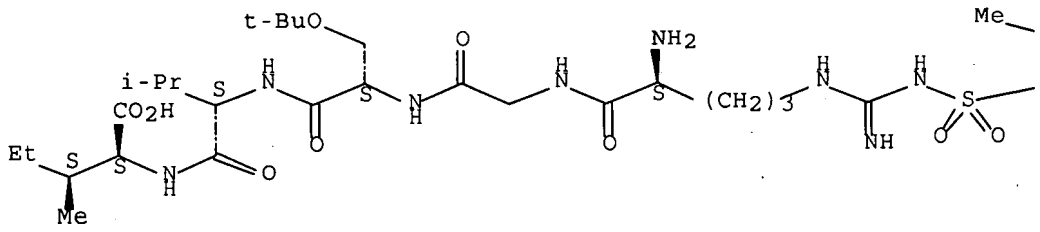
PAGE 1-B



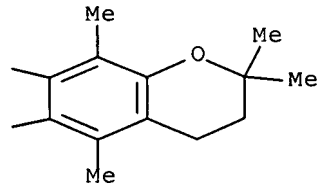
RN 196702-95-1 ZCAPLUS
CN L-Isoleucine, N5-[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-yl)sulfonyl]amino]iminomethyl]-L-ornithylglycyl-O-(1,1-dimethylethyl)-L-seryl-L-valyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



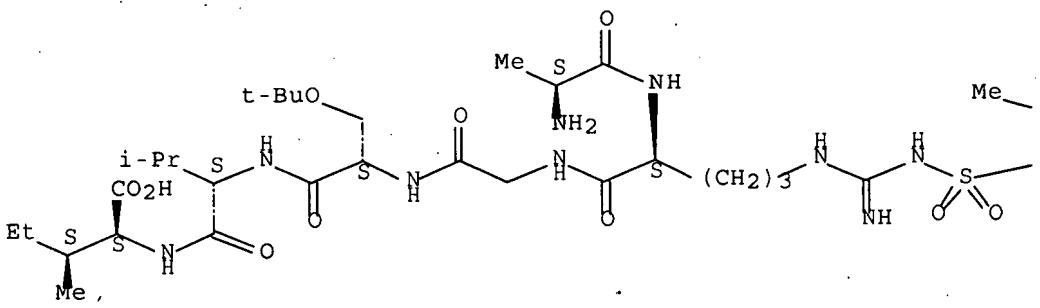
PAGE 1-B



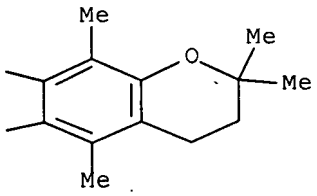
RN 196702-96-2 ZCAPLUS
CN L-Isoleucine, L-alanyl-N5-[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-yl)sulfonyl]amino]iminomethyl]-L-ornithylglycyl-O-(1,1-dimethylethyl)-L-seryl-L-valyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L95 ANSWER 47 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:105210 ZCAPLUS Full-text
DOCUMENT NUMBER: 126:113714
TITLE: Transforming growth factor-β fusion proteins and their use in wound healing
INVENTOR(S): Hall, Frederick L.; Nimni, Marcel E.; Tuan, Tai-Lan; Wu, Lintao; Cheung, David T.
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639430	A1	19961212	WO 1996-US8973	19960605 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
US 5800811	A	19980901	US 1995-470837	19950606 <--

AU 9661529 A 19961224 AU 1996-61529 19960605 <--
PRIORITY APPLN. INFO.: US 1995-470837 A 19950606 <--
WO 1996-US8973 W 19960605 <--

AB Disclosed is a method of preparing a fusion protein comprising a purification tag, ≥1 proteinase site, an extracellular matrix binding site, and an active transforming *growth* factor β (TGF-β) fragment. The method also includes purifying and renaturing TGF-β protein to provide an active TGF-β fusion protein preparation Methods of using TGF-β fusion protein are also provided. Preparation of a few fusion proteins consisting of C-terminal 112 amino acids of human TGF-β1 was shown. Biol. activities of TGF-β fusion proteins and use of the proteins as wound healing agents were also described.

IC ICM C07K014-495
ICS C12N015-62

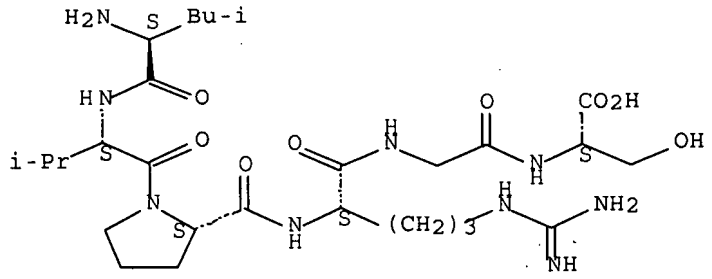
CC 2-10 (Mammalian Hormones)
Section cross-reference(s): 1, 3

IT 5874-90-8 18635-55-7 26698-64-6 61430-14-6 78641-59-5 99542-45-7
154485-12-8 *158734-08-8* 185844-61-5 185844-62-6
185844-63-7 185844-64-8 185844-65-9
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(proteinase site peptide; preparation of transforming growth factor-β fusion proteins and use in wound healing)

IT *158734-08-8*
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(proteinase site peptide; preparation of transforming growth factor-β fusion proteins and use in wound healing)

RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 48 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:991212 ZCAPLUS Full-text
DOCUMENT NUMBER: 124:79796
TITLE: Isolation of a tripeptide from a random phage peptide library that inhibits P1,P4-diadenosine 5'-tetraphosphate binding to its receptor
AUTHOR(S): Liu, Guang; Bryant, Robby T.; Hilderman, Richard H.
CORPORATE SOURCE: Department of Biological Sciences, Clemson University, Clemson, SC, 29634-1903, USA
SOURCE: Biochemistry (1996), 35(1), 197-201
CODEN: BICHAW; ISSN: 0006-2960

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Extracellular P1,P4-diadenosine 5'-tetraphosphate (Ap4A) has been implicated as a modulator of cell stress. The authors have previously demonstrated specific receptors for Ap4A at the surface of cardiac myocytes. In addition, the authors have isolated a monoclonal antibody (mAb TL4) that recognized the Ap4A receptor and inhibited binding of Ap4A to its receptor. As part of the effort to characterize the Ap4A receptor building domain, the authors screened a random phage peptide library with mAb TL4. After affinity purification of specifically bound phage, the authors isolated 38 individual phage clones. Twenty-eight of these clones bound mAb TL4 in ELISA and dot blot analyses. Twenty-two of the twenty-eight individual clones contained inserts with an RGS tripeptide sequence. Synthetic RGS peptide specifically inhibits the binding of mAb TL4 to its membrane receptor. Furthermore, the RGS peptide also inhibits [3H]Ap4A binding to its receptor. These data are consistent with the RGS peptide mimicking part of the mAb TL4 recognition site on the Ap4A receptor. The RGS peptide may be used to help characterize the Ap4A receptor binding domain and to help determine the physiol. significance of the interaction between Ap4A and its receptor.

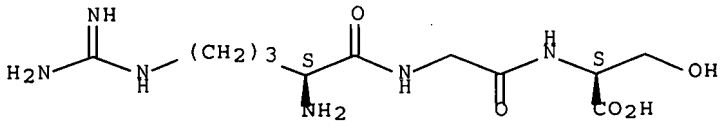
CC 6-3 (General Biochemistry)

IT *158734-09-9*
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(RGS tripeptide from random phage peptide library inhibits P1,P4-diadenosine 5'-tetraphosphate (Ap4A) binding to receptor)

IT *158734-09-9*
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(RGS tripeptide from random phage peptide library inhibits P1,P4-diadenosine 5'-tetraphosphate (Ap4A) binding to receptor)

RN 158734-09-9 ZCAPLUS
CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 49 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:570940 ZCAPLUS Full-text
DOCUMENT NUMBER: 122:307396
TITLE: Receptor mediated label transfer assay
INVENTOR(S): Beutler, Bruce A.; Poltorak, Alexander; Peppel, Karsten
PATENT ASSIGNEE(S): Board of Regents, University of Texas System, USA
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 9506257		A1	19950302	WO 1994-US9553	19940823 <--
W:	AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN				
RW:	KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9476031		A	19950321	AU 1994-76031	19940823 <--
PRIORITY APPLN. INFO.:				US 1993-111075 A	19930823 <--
				WO 1994-US9553 W	19940823 <--

AB A new method for the detection of subpicogram amts. of soluble receptors and receptor-ligands is disclosed. The method is exceedingly sensitive and has been used to detect tumor necrosis factor (TNF) in plasma samples by using a 131I-labeled recombinant TNF receptor capture ligand that is crosslinked to the TNF, then isolated and detected by PAGE. The technique takes advantage of the resolving power of PAGE combined with specificity imparted by receptor-ligand interaction. Limitations imposed only by the affinity constant of interaction between ligand and receptor are circumvented by forming a covalent bond between the receptor and the ligand. The assay is in principle applicable to the detection of many protein hormones for which soluble receptors exist and is particularly suited to detection of proteins that engage multiple receptor subunits. The methods represent a major improvement over conventional methods for the assay of trace proteins and specific detection of only a few hundred thousand active mols.

IC ICM G01N033-68
ICS G01N033-566; G01N033-531

CC 2-1 (Mammalian Hormones)
Section cross-reference(s): 3, 9, 14

IT Animal *growth* regulators
Hormones
Interferons
Ligands
Lymphokines and Cytokines
Proteins, biological studies
Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(receptor-mediated label transfer assay)

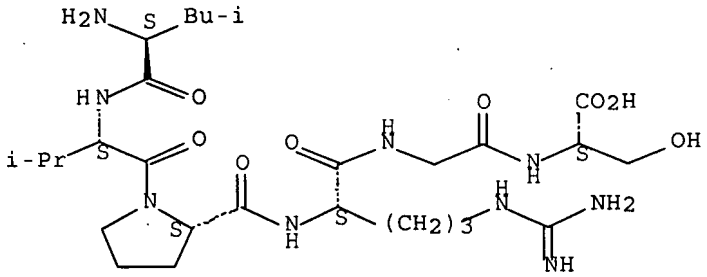
IT 9002-72-6, *Growth* hormone
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(receptor-mediated label transfer assay)

IT 50-00-0, Formaldehyde, biological studies 111-30-8, Glutaraldehyde 30525-89-4, Paraformaldehyde 68528-80-3, Disuccinimidyl suberate *158734-08-8* 163517-20-2 163517-21-3 163517-22-4 163517-23-5 163517-24-6
RL: ARU (Analytical role, unclassified); *THU (Therapeutic use)*; ANST (Analytical study); BIOL (Biological study); USES (Uses)
(receptor-mediated label transfer assay)

IT *158734-08-8*
RL: ARU (Analytical role, unclassified); *THU (Therapeutic use)*; ANST (Analytical study); BIOL (Biological study); USES (Uses)
(receptor-mediated label transfer assay)

RN 158734-08-8 ZCAPLUS
CN L-Serine, L-leucyl-L-valyl-L-prolyl-L-arginylglycyl- (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 50 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:673013 ZCAPLUS Full-text
DOCUMENT NUMBER: 121:273013
TITLE: Manufacture of vasoactive intestinal peptide as an oligomer linked by labile peptides in a fusion protein
INVENTOR(S): Lavergne, Fabienne; Muller, Jean-Marc; Meunier, Annie-Claire Marie Helene; Cenatiempo, Yves; Julien, Raymond Alphonse; Raingeaud, Joel
PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique, Fr.; Universite de Limoges
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9419469	A1	19940901	WO 1994-FR111	19940128
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2701953	A1	19940902	FR 1993-1988	19930222
FR 2701953	B1	19950524		

PRIORITY APPLN. INFO.: FR 1993-1988 A 19930222
OTHER SOURCE(S): MARPAT 121:273013

AB Fusion proteins X-T-(A-VIP-B-C)n-A-VIP-B-Y (VIP = vasoactive intestinal peptide = HSDAVFTDNYTRLRKQMAVKKYLNSILN; X is a marker protein or the peptide MHGCRSIDS, T = LVPRGS when X is a marker protein, otherwise RGS; A = IER; B = GSTPR; C = serine; Y = GIHRD; n is an integer from 0. to 31) are manufactured by expression of the cloned gene with the VIP peptides released from the fusion protein by cleavage with a combination of factor Xa and hydroxylamine. The preferred marker protein (X) is glutathione-S-transferase. The construction of expression cassettes based on pGEX2 and the manufacture, purification, and site-specific cleavage of the fusion protein are demonstrated. The VIP recovered from the fusion protein with the B or B-C-A extension has biol. activities comparable to natural VIP.

IC ICM C12N015-62
ICS C12N015-70; C12N015-63; C07K013-00; C12N001-21; C12P021-02
ICI C12N001-21, C12R001-19
CC 2-6 (Mammalian Hormones)
IT 56-45-1DP, Serine, oligomeric fusion products containing vasoactive intestinal peptide and 60703-95-9DP, oligomeric fusion products 91859-00-6DP, oligomeric fusion products containing vasoactive intestinal peptide and 158734-07-7DP, oligomeric fusion products containing vasoactive intestinal

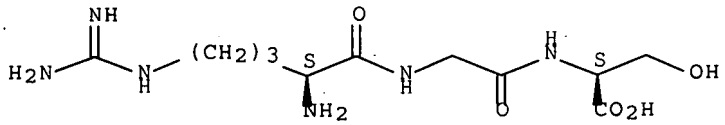
peptide and 158734-08-8DP, oligomeric fusion products containing vasoactive intestinal peptide and *158734-09-9DP*, oligomeric fusion products containing vasoactive intestinal peptide and 158734-10-2DP, oligomeric fusion products containing vasoactive intestinal peptide and 158734-11-3DP, oligomeric fusion products containing vasoactive intestinal peptide and
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(manufacture of vasoactive intestinal peptide as an oligomer linked by labile peptides in a fusion protein)

IT *158734-09-9DP*, oligomeric fusion products containing vasoactive intestinal peptide and
RL: BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(manufacture of vasoactive intestinal peptide as an oligomer linked by labile peptides in a fusion protein)

RN 158734-09-9 ZCAPLUS

CN L-Serine, L-arginylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L95 ANSWER 51 OF 51 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:421379 ZCAPLUS Full-text

DOCUMENT NUMBER: 113:21379

TITLE: Persistent spreading of ligament cells on osteopontin/*bone* sialoprotein-I or collagen enhances tolerance to heat shock

AUTHOR(S): Sauk, John J.; Van Kampen, Craig L.; Norris, Kathleen; Moehring, Jennifer; Foster, Ruth A.; Somerman, Martha J.

CORPORATE SOURCE: Dent. Sch., Univ. Maryland, Baltimore, MD, 21201, USA

SOURCE: Experimental Cell Research (*1990*), 188(1), 105-10
CODEN: ECREAL; ISSN: 0014-4827

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Fibronectin (FN), *bone* sialoprotein-I (BSP-I), type I collagen, and a number of synthetic peptides containing the integrin attachment sequence (RDG) were evaluated for their ability to affect stress tolerance in osteoligament cells (OL). The attachment and spreading of OL cells was determined and survival from heat shock was evaluated by known methods. These studies showed that FN, BSP-I, and synthetic RGD peptides enhance attachment of OL cells. Increased survival from heat was limited to cells spread on fibronectin, BSP-I, and type I collagen. OL cells that persistently spread on BSP-I and type I collagen had more survivors than cells demonstrating transient spreading on FN. These studies indicate that (1) cell spreading is a prerequisite for stress tolerance and (2) enhanced stress tolerance is mediated by protein sequences other than those immediately surrounding the RGD sites in native proteins.

CC 13-6 (Mammalian Biochemistry)

IT 91037-66-0, VTGRGDSPASSKPIC *127780-09-0*, VTGRGSPAC
127780-11-4, EDRGDTYRAVEDEK 127780-12-5, QVTRGDVFTMPEDEK 127780-13-6, PDGRGDSLAYGLRSK

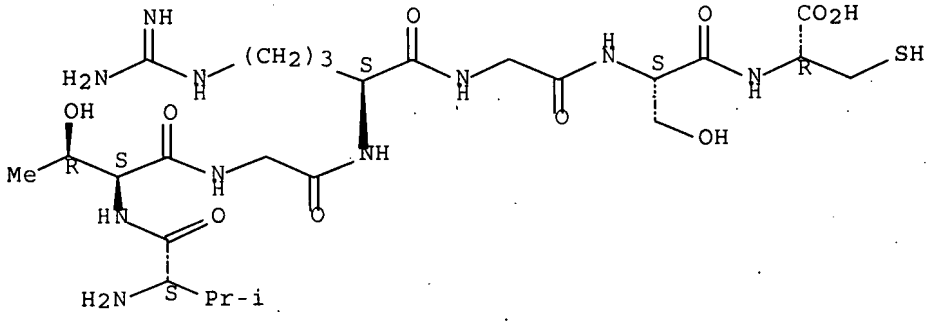
RL: BIOL (Biological study)
(ligament cell attachment and spreading on, heat shock tolerance response to)

IT *127780-09-0*, VTGRGSPAC
RL: BIOL (Biological study)
(ligament cell attachment and spreading on, heat shock tolerance response to)

RN 127780-09-0 ZCAPLUS

CN L-Cysteine, N-[N-[N-[N-[N2-[N-(N-L-valyl-L-threonyl)glycyl]-L-arginyl]glycyl]-L-seryl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



```
=>  d his full

     (FILE 'HOME' ENTERED AT 10:48:02 ON 05 SEP 2007)

     FILE 'ZCAPLUS' ENTERED AT 10:49:30 ON 05 SEP 2007
                E US2005-534355/APPS
L1            2 SEA ABB=ON  PLU=ON  US2005-534355/AP
                D SCA
                SEL RN

     FILE 'REGISTRY' ENTERED AT 10:50:27 ON 05 SEP 2007
L2            1 SEA ABB=ON  PLU=ON  158734-09-9
L3           10 SEA ABB=ON  PLU=ON  (158734-09-9/BI OR 25265-71-8/BI OR
                25265-75-2/BI OR 56-65-5/BI OR 57-55-6/BI OR 64-17-5/BI OR
                67-63-0/BI OR 71-23-8/BI OR 7440-70-2/BI OR 9003-11-6/BI)
                D SCA L2

     FILE 'STNGUIDE' ENTERED AT 10:53:01 ON 05 SEP 2007

     FILE 'REGISTRY' ENTERED AT 11:01:37 ON 05 SEP 2007
                E A/FS
L4            0 SEA ABB=ON  PLU=ON  L3 AND SEQUENCE/FS

     FILE 'ZCAPLUS' ENTERED AT 11:05:08 ON 05 SEP 2007
L5           10 SEA ABB=ON  PLU=ON  L2
                D SCA

     FILE 'REGISTRY' ENTERED AT 11:09:37 ON 05 SEP 2007
L6          186 SEA ABB=ON  PLU=ON  ^.{0-3}RGS.{0-3}^/SQSP
L7            0 SEA ABB=ON  PLU=ON  L6 AND L2
L8          186 SEA ABB=ON  PLU=ON  L6 AND SQL<10
L9            0 SEA ABB=ON  PLU=ON  L6 AND SQL<4
L10          11 SEA ABB=ON  PLU=ON  L6 AND SQL<5
                SEL RN L2
L11           0 SEA ABB=ON  PLU=ON  158734-09-9/CRN
L12             STR 158734-09-9
                D L12
L13           0 SEA FAM SAM L12
L14           1 SEA FAM FUL L12

     FILE 'ZCAPLUS' ENTERED AT 11:16:04 ON 05 SEP 2007
L15         257 SEA ABB=ON  PLU=ON  L6
L16      141667 SEA ABB=ON  PLU=ON  COSMET?/CC
L17           0 SEA ABB=ON  PLU=ON  L15 AND L16
L18      175128 SEA ABB=ON  PLU=ON  ?COSMET?/SC,SX
L19     2257205 SEA ABB=ON  PLU=ON  PHARM?/CC,SX,SC
L*** DEL     85 S L!5 AND (L16 OR L18 OR L19)
L20         115 SEA ABB=ON  PLU=ON  L15 AND (L16 OR L18 OR L19)
L21          10 SEA ABB=ON  PLU=ON  L2
L22           3 SEA ABB=ON  PLU=ON  L21 AND L16
L23           3 SEA ABB=ON  PLU=ON  L21 AND L18
L24           5 SEA ABB=ON  PLU=ON  L21 AND L19
L25           6 SEA ABB=ON  PLU=ON  (L22 OR L23 OR L24)
L26     1741414 SEA ABB=ON  PLU=ON  (THU OR BAC OR PKT OR PAC OR DMA)/RL
L27           4 SEA ABB=ON  PLU=ON  L2 (L) L26
L28           6 SEA ABB=ON  PLU=ON  L25 OR L27
L29           4 SEA ABB=ON  PLU=ON  L5 NOT L28
L30       85846 SEA ABB=ON  PLU=ON  ?COSMET?/BI
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L31       215552 SEA ABB=ON  PLU=ON  ?DERM?/BI
L32       315606 SEA ABB=ON  PLU=ON  ?SKIN?/BI
L33          907 SEA ABB=ON  PLU=ON  ?CELLULIT?/BI
L34       206046 SEA ABB=ON  PLU=ON  AGING?/BI OR ANTIAGING?/BI
L35            1 SEA ABB=ON  PLU=ON  L15 AND L30
                 D SCA
L36           16 SEA ABB=ON  PLU=ON  L15 AND L31
L37           22 SEA ABB=ON  PLU=ON  L15 AND L32
L38            0 SEA ABB=ON  PLU=ON  L15 AND L33
L39            1 SEA ABB=ON  PLU=ON  L15 AND L34
                 D SCA
L40           65 SEA ABB=ON  PLU=ON  L15 (L) L26
L41           12 SEA ABB=ON  PLU=ON  L40 AND (L30 OR L31 OR L32 OR L33 OR L34)
L42            2 SEA ABB=ON  PLU=ON  L15 AND L18
                 D SCA
L43           49 SEA ABB=ON  PLU=ON  L19 AND L40
L44           16 SEA ABB=ON  PLU=ON  L40 NOT L43
L45           33 SEA ABB=ON  PLU=ON  (L36 OR L37 OR L38 OR L39)
L46           21 SEA ABB=ON  PLU=ON  L45 NOT L41
L47      1375243 SEA ABB=ON  PLU=ON  GROWTH/BI
L48           54 SEA ABB=ON  PLU=ON  L47 AND L15
L49          129 SEA ABB=ON  PLU=ON  L15 AND PY<2003
L50          138 SEA ABB=ON  PLU=ON  L15 AND PRY<2003
L51          126 SEA ABB=ON  PLU=ON  L15 AND AY<2003
L52          166 SEA ABB=ON  PLU=ON  (L49 OR L50 OR L51)
L53           20 SEA ABB=ON  PLU=ON  L52 AND (L35 OR L36 OR L37 OR L38 OR L39)
L*** DEL     107 S L52 (L) L26
L54           52 SEA ABB=ON  PLU=ON  L40 AND L52
L55           63 SEA ABB=ON  PLU=ON  L53 OR L54
L56           33 SEA ABB=ON  PLU=ON  L48 AND L52
L57           81 SEA ABB=ON  PLU=ON  (L55 OR L56)
L58         4163 SEA ABB=ON  PLU=ON  BONE GROWTH?/BI
L59         1630 SEA ABB=ON  PLU=ON  BODY GROWTH?/BI
L60            2 SEA ABB=ON  PLU=ON  (L58 OR L59) AND L52
                 D SCA
L61       218210 SEA ABB=ON  PLU=ON  BONE#/BI
L62           11 SEA ABB=ON  PLU=ON  L61 AND L52
L63            3 SEA ABB=ON  PLU=ON  L40 AND L62
L64            9 SEA ABB=ON  PLU=ON  L53 AND L40
L65           69 SEA ABB=ON  PLU=ON  L52 AND L19
L66           36 SEA ABB=ON  PLU=ON  L65 AND L54
L67           52 SEA ABB=ON  PLU=ON  L40 AND L52
L68           10 SEA ABB=ON  PLU=ON  L67 AND L47
L69           37 SEA ABB=ON  PLU=ON  L35 OR L41 OR L42 OR L60 OR L62 OR L63 OR
                 L53 OR L64 OR L68
L70            9 SEA ABB=ON  PLU=ON  L53 AND L40
L71           33 SEA ABB=ON  PLU=ON  L52 AND L47
L72           51 SEA ABB=ON  PLU=ON  L69 OR L71
L73      1138160 SEA ABB=ON  PLU=ON  GROWTH/AB
L74           13 SEA ABB=ON  PLU=ON  L73 AND L52
L75           44 SEA ABB=ON  PLU=ON  L69 OR L74
L76            0 SEA ABB=ON  PLU=ON  L15 (L) COS/RL
                 E DALF/AU
                 E DAL F/AU
L77           62 SEA ABB=ON  PLU=ON  DAL FARRA C?/AU
L78           59 SEA ABB=ON  PLU=ON  DOMLOGE N?/AU
L79           31 SEA ABB=ON  PLU=ON  BOTTO J?/AU
L80           57 SEA ABB=ON  PLU=ON  L77 AND (L78 OR L79)
L81            7 SEA ABB=ON  PLU=ON  L78 AND L79
L82           58 SEA ABB=ON  PLU=ON  (L80 OR L81)
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L83             6 SEA ABB=ON  PLU=ON  L80 AND L81
                  D STAT QUE L69
L84            44 SEA ABB=ON  PLU=ON  L69 OR L70 OR L74
L85             0 SEA ABB=ON  PLU=ON  L84 AND (L77 OR L78 OR L79)
L86             3 SEA ABB=ON  PLU=ON  L5 AND (L77 OR L78 OR L79)
                  D SCA
L87             6 SEA ABB=ON  PLU=ON  L5 AND ((L16 OR L17 OR L18 OR L19) OR L30
                  OR L40 OR (L31 OR L32 OR L33 OR L34) OR L47 OR (L58 OR L59) OR
                  L61 OR L73)
L88             3 SEA ABB=ON  PLU=ON  L87 AND (L77 OR L78 OR L79)
L89         26504 SEA ABB=ON  PLU=ON  CUTANEOUS/BI
L90             0 SEA ABB=ON  PLU=ON  L52 AND L89
L91             1 SEA ABB=ON  PLU=ON  L15 AND L89
                  D SCA
L92             0 SEA ABB=ON  PLU=ON  L91 AND (L77 OR L78 OR L79)

    FILE 'REGISTRY' ENTERED AT 12:01:44 ON 05 SEP 2007

    FILE 'ZCAPLUS' ENTERED AT 12:01:49 ON 05 SEP 2007
                  D STAT QUE L83
                  D STAT QUE L86
                  D STAT QUE L88
L93             0 SEA ABB=ON  PLU=ON  (L77 OR L78 OR L79) AND L15
L94             7 SEA ABB=ON  PLU=ON  L83 OR L86 OR L88
                  D IBIB ABS HITIND HITSTR L94 1-7

    FILE 'REGISTRY' ENTERED AT 12:03:47 ON 05 SEP 2007

    FILE 'ZCAPLUS' ENTERED AT 12:03:52 ON 05 SEP 2007
                  D STAT QUE L25
                  D STAT QUE L27
                  D STAT QUE L5
                  D STAT QUE L87
                  D STAT QUE L35
                  D STAT QUE L41
                  D STAT QUE L42
                  D STAT QUE L60
                  D STAT QUE L62
                  D STAT QUE L63
                  D STAT QUE L53
                  D STAT QUE L64
                  D STAT QUE L68
                  D STAT QUE L70
                  D STAT QUE L74
                  D STAT QUE L91
L95            51 SEA ABB=ON  PLU=ON  (L25 OR L27 OR L5 OR L87 OR L35 OR L41 OR
                  L42 OR L60 OR L62 OR L63 OR L53 OR L64 OR L68 OR L70 OR L74 OR
                  L91) NOT L94
                  D IBIB ABS HITIND HITSTR L95 1-51


    FILE HOME

    FILE ZCAPLUS

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FILE STNGUIDE
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 31, 2007 (20070831/UP).

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